

*The*

# AMERICAN RIFLEMAN

Memo:

*Dear Family:*

*If you want to  
give me one or two  
Christmas presents  
that I'd get a  
real thrill out of,  
look inside this  
magazine —*

*P.S. I've marked Yours  
them in  
pencil*

Published By

The National Rifle Association of America  
Incorporated 1871

# Win after Win Proves that Now, More than Ever, "Tackhole" is KING OF THE SMALL BORE RANGE



## Paul T. Holland Wins Swiss Match with 100 Bulls shooting "Tackhole"

*The value of Mr. Holland's 100 consecutive bulls is shown below. When he came on the firing line he was going up against a 91 and a 71 to win anything other than third place!*

(1)	X	X	9	X	9	9	X	X	X	10	—	97
(2)	10	9	10	10	10	10	X	10	9	10	—	98
(3)	9	X	X	10	10	X	X	10	X	9	—	98
(4)	10	10	10	10	10	10	X	9	9	10	—	98
(5)	9	9	X	9	9	9	X	9	9	10	—	93
(6)	10	X	9	10	10	X	10	X	10	10	—	97
(7)	X	X	X	X	10	X	9	10	X	X	—	99
(8)	10	X	X	9	9	9	10	X	X	X	—	97
(9)	9	9	9	9	10	X	9	9	10	9	—	93
(10)	X	9	10	9	X	X	X	X	X	10	—	98

## "TACKHOLE" WINS AT FORT SHERIDAN

FORT SHERIDAN, ILL., Sept. 19 — In the Lord Trophy Match Illinois State Championships, Edward Kress won the championship with a score of 497 x 500.

FORT SHERIDAN, ILL., Oct. 3 — In the Inter-State Small Bore Matches the two high men on the Illinois State 20-man team were William Sasko, first, with 399; and Edward Kress, second, also with a 399.



*"Tackhole" is a registered trade mark of Peters Cartridge Division.*

## AND AT OKMULGEE, OKLAHOMA

OKMULGEE, OKLA., Oct. 3 — R. W. Aust of Chickasha, won the 50-Meter Metallic Sights with 196; won the Dewar Course Any Sights with 399; the 100-yard Any Sights with 198; and the Metallic Sight Aggregate with 985. He used Peters Tackhole in all matches. Mr. Aust was also runner-up for the Oklahoma Small Bore Championship with 1963. J. R. Martin was third with 1957.

**PETERS** **DUPONT**  
1887 • PETERS GOLDEN ANNIVERSARY • 1937  
FIFTY YEARS OF SERVICE TO THE SPORTSMAN  
Peters Cartridge Div., Remington Arms Co., Inc., Dept. L-26, Bridgeport, Conn.

PRESS OF  
JUDD & DETWEILER, INC.  
WASHINGTON, D. C.

*A Very*

# **MERRY CHRISTMAS**

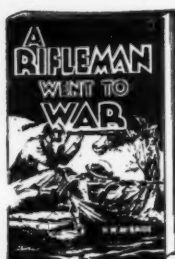
**MAY YOU BE AIDED TO A MORE ENJOYABLE  
HOLIDAY SEASON THROUGH THE TIMELY  
SUGGESTIONS CONTAINED IN THIS MAGAZINE**

**NATIONAL RIFLE ASSOCIATION**

**OUR 67th Christmas ★ ★ ★**



CHECK HERE

FOR ALL  
SHOOTERS

The interesting, true story of modern war as a real Yankee Rifleman found it. Admittedly the outstanding book of general interest to the shooter. Price \$3.50.

*Books Are*

# ALWAYS ACCEPTABLE

## FOR THE HUNTER-SPORTSMAN:

**Military and Sporting Rifle Shooting**—Crossman  
400 pages, 100 illustrations  
**The American Hunter**—Rutledge  
461 pages

## FOR THE TECHNICIAN:

**Textbook of Firearms Identification Investigation and Evidence**—Hatcher  
750 pages, 300 illustrations

## FOR THE AMATEUR GUNSMITH:

**Modern Gunsmithing**—Baker  
525 pages, 200 illustrations

## FOR THE SMALL BORE SHOOTER:

**.22 Caliber Rifle Shooting**—Landis  
400 pages, 100 illustrations

## FOR THE TARGET SHOOTER:

**The Book of The Springfield**—Crossman  
450 pages, 100 illustrations

## FOR THE SHOTGUN SHOOTER:

**Modern Shotguns and Loads**—Askins  
436 pages, 100 illustrations

## FOR THE HANDGUN SHOOTER:

**Textbook of Pistols and Revolvers**—Hatcher  
532 pages, 190 illustrations

**W**HEN in doubt give a book. That is a pretty safe rule to follow because down thru the years books have come to be accepted as the always acceptable gift.

Of course it is important to select the right book, one helpful and interesting to the recipient.

And to help you choose wisely we publish herewith a description of the outstanding books for shooters. These books contain the cream of the authoritative data, compiled and written by the nations best known technical writers. You can be pretty sure that any of the titles listed will prove acceptable gifts to shooters. Furthermore, each book is sold under our unconditional guarantee of satisfaction. Should any title you purchase prove unacceptable, return it to us in good condition within 5 days and we will refund the purchase price.

All book orders received prior to December 23rd will be shipped before Christmas. Use the order blank below, please.

## CHECK THE BOOKS YOU WANT

- ☐ **A Rifleman Went to War**—McBride..... \$3.50
- ☐ **Textbook of Firearms Identification Investigation and Evidence**—Hatcher..... \$7.50
- ☐ **Modern Gunsmithing**—Baker..... \$4.50
- ☐ **.22 Caliber Rifle Shooting**—Landis..... \$3.75
- ☐ **Book of the Springfield**—Crossman..... \$4.00
- ☐ **Modern Shotguns and Loads**—Askins..... \$4.00
- ☐ **Textbook of Pistols and Revolvers**—Hatcher.. \$4.25
- ☐ **The American Hunter**—Rutledge..... \$4.00
- ☐ **Military and Sport Rifle Shooting**—Crossman.. \$4.50

Amount enclosed for books \$.....

National Rifle Association  
Barr Building, Washington, D. C.

Gentlemen:

Please send me by prepaid parcel post the books I have checked on this list.

NAME.....

ADDRESS.....

CITY.....STATE.....

Send to:

NAME.....

ADDRESS.....

CITY.....STATE.....





CHECK HERE

**FAMILY—USE THIS COUPON**



**FOR THE  
RELOADER**

Newest of the several manuals offered is Major Naramore's "Handloaders Manual," which is reviewed in this issue. It is a book shooters have sought for years. Price, \$3.50.

*Manuals—*

# **WELCOME *and* USEFUL**

**T**HE inexpensive manuals described on this page always make acceptable gifts for the shooter. They are really miniature textbooks written by top-notch authors and containing from 40,000 to 60,000 words on timely subjects of specific interest to the sportsman.

The Naramore manual, featured above, is fresh off the press so you may feel sure that your friends do not yet possess a copy. The other titles made their appearance during the past two years and each has been popularly received by the fraternity of shooters.

Our unconditional "money's worth or money back" guarantee of satisfaction applies to these manuals as well as to the textbooks we sell. Experience has shown us that they can be suggested as gifts for the shooter "guaranteed acceptable."

**FOR THE HUNTER-SPORTSMAN—**

**Big Game Rifle and Cartridges—Keith**  
170 pages  
**The Woodchuck Hunter—Estey**  
136 pages

**FOR THE TARGET SHOOTER—**

**Telescopic Rifle Sights—Whelen**  
130 pages

**FOR THE HANDGUN SHOOTER—**

**Six Guns and Bull's-eyes—Reichenbach**  
145 pages  
**Automatic Pistol Marksmanship—Reichenbach**  
140 pages  
**Six Gun Cartridges and Loads—Keith**  
150 pages

**FOR THE AMATEUR GUNSMITH—**

**Firearms Blueing and Browning—Angier**  
160 pages

National Rifle Association  
Barr Building, Washington, D. C.

Gentlemen:

Please ship by prepaid parcel post the manuals I have checked.

NAME.....

ADDRESS.....

CITY.....STATE.....

Send to:

NAME.....

ADDRESS.....

CITY.....STATE.....

## **CHECK THE MANUALS YOU WANT**

<input type="checkbox"/>	Handloaders Manual—Naramore.....	\$3.50
<input type="checkbox"/>	Big Game Rifles and Cartridges—Keith.....	\$1.50
<input type="checkbox"/>	The Woodchuck Hunter—Estey.....	\$1.50
<input type="checkbox"/>	Telescopic Rifle Sights—Whelen.....	\$1.50
<input type="checkbox"/>	Six Guns and Bull's-eyes—Reichenbach.....	\$1.50
<input type="checkbox"/>	Auto. Pistol Marksmanship—Reichenbach.....	\$1.50
<input type="checkbox"/>	Six Gun Cartridges and Loads—Keith.....	\$1.50
<input type="checkbox"/>	Firearms Blueing and Browning—Angier.....	\$2.50

Amount enclosed for manuals \$.....



FOR  
LIFE  
MEMBERS

This is our new, distinctive brassard for life members. It's a beauty. Too bad we can't show it in natural colors (red lettering with gold eagle and borders embroidered on snow-white felt background). A brassard that merits the distinction of N. R. A. Life Membership. Price, .50, postpaid.

*We Suggest*

## THESE EXCLUSIVE ITEMS

### FOR LIFE MEMBERS:

This 10-karat solid gold pin with safety catch is a welcome gift for any Life Member in the fraternity of American shooters. . . . . \$2.50

### FOR ANNUAL MEMBERS:

This good looking brassard identifies the wearer as a patriotic Sportsman. . . . . \$ .50

### FOR ALL MEMBERS:

The handsome de luxe fabricoid binder, made to last a lifetime, will hold 12 unmarred issues of The Rifleman . . . . . \$1.95

The Frontiersman radiator emblem (not shown) is a close-out bargain at its greatly reduced price. . . \$ .50

The "3-in-1" combination scoring gauge (not shown) insures speedy, accurate target scoring. Its three scoring flanges: .22, .38 and .45 caliber make it the only all-purpose gauge available. . . \$1.50



### CHECK THE ITEMS YOU WANT

- ☐ New Life Member Brassard . . . . . \$0.50
- ☐ 10-Kt Gold Life Member Pin . . . . . \$2.50
- ☐ Annual Member Brassard . . . . . \$0.50
- ☐ American Rifleman Binder . . . . . \$1.95
- ☐ Frontiersman Radiator Emblem . . . . . \$0.50
- ☐ "3-in-1" Score Gauge . . . . . \$1.50

Amount enclosed for fraternal items \$ . . . .

National Rifle Association  
Barr Building, Washington, D. C.

Gentlemen:

Send me the fraternal items I have checked

NAME . . . . .

STREET . . . . .

CITY . . . . .

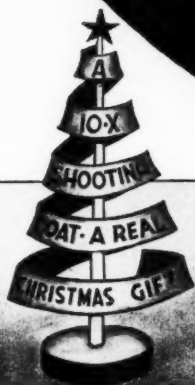
# 100% HIT WITH ONE OF THESE GIFTS



## ★ GIFTS THAT SHOOTERS LOVE

- A 10-X DE LUXE RIFLEMAN'S COAT**  
A gift that any rifleman will enjoy ..... \$6.50
- B 10-X ARISTOCRAT RIFLEMAN'S COAT**  
The pride of the rifle range. The most popular rifleman's coat on its own merits ..... \$8.00
- C 10-X SPORT JACKET**  
32 ounce 100% virgin wool, wet and wind proofed, talon front, individual gussets for each sleeve, deep red and black plaid ..... \$11.50
- D 10-X GUN CASE**  
All leather, full length, zipper closing, biggest gun case value at any price, only \$5.25
- E 10-X RIFLEMAN'S GLOVE**  
Leather, properly padded, riflemen designed, most popular rifleman's glove in America, \$2.50.

*If your dealer can  
not supply you  
Order Direct Now*



# 10-X MANUFACTURING CO.

DES MOINES, IOWA

★ ALL 10-X PRODUCTS ARE SOLD ON MONEY-BACK GUARANTEE

# *Cancelled!*

A special Christmas ad scheduled for this page was cancelled at the last minute because the advertiser is already so far behind on shipments of regular orders it was impossible to guarantee deliveries of any special Christmas merchandise.

From all indications there is likely to be a considerable shortage of better-quality Christmas gift merchandise this year and particularly of those items especially suitable for the shooter-sportsman. We know several manufacturers of shooting and hunting equipment have been oversold for months and it is doubtful if they will be able to deliver *any* new orders for Christmas.

You will find in this issue several pages of special gift items for shooters. *No* other type of gifts would be more sincerely appreciated by ardent gun enthusiasts. These advertisers have made special plans to take care of Christmas orders promptly, but to insure no delays or disappointments we strongly urge an early selection and prompt placement of all gift orders.

*The American Rifleman*



# The AMERICAN RIFLEMAN

VOL. 85, No. 12

DECEMBER, 1937

## N. R. A. SERVICE

**LEGISLATIVE DIVISION:** Looks after the interests of the shooters in Congress and State Legislatures, carries on the organized fight against unsound anti-gun laws, encourages legislation for the aid of civilian rifle practice and assists members to obtain permits to carry firearms to and from a range in states requiring such permits.

**THE AMERICAN RIFLEMAN:** This magazine is the official monthly publication of the N. R. A., and as such is "The Voice of the N. R. A." Non-political and non-sectarian in policy and free from commercial domination, it can and does speak freely, frankly and with authority on all shooting matters.

**TECHNICAL DIVISION:** Helps members with their personal shooting problems, reports in THE AMERICAN RIFLEMAN each month practical tests and critical examinations of new guns and equipment, and gives by personal letter advice on the selection of the right gun for a specific purpose, reloading, restocking, etc.

**CLUB SERVICE DIVISION:** Assists shooters in organizing local rifle and pistol clubs, furnishes detailed diagrams for the construction of regulation indoor and outdoor ranges, suggests a varied program and competition to keep up the interest of members, and generally assists affiliated units by passing along the successful experiences and ideas of other clubs.

**MEMBERSHIP EXTENSION:** Operates as a service division by furnishing members with sales literature and printed information so that they may explain to fellow sportsmen the value and benefits of N. R. A. membership and, moreover, because increased membership means an extension of N. R. A. service, it serves to benefit members in this way.

**COMPETITIONS DIVISION:** Conducts a year-round program of home-range matches in which members may win distinctive medals while practicing at home with rifle and pistol, aids state associations and civilian clubs in planning and conducting regional, state and local shooting matches, and gives members helpful personal advice on their individual target-shooting problems.

**JUNIOR DIVISION:** Provides individual and club memberships for junior shooters, boys and girls alike; conducts a year-round program of competitive and qualification shooting, and teaches Young America how to handle firearms safely and properly. No father should hesitate to support its good work.

**POLICE DIVISION:** Assists police departments in marksmanship training of their officers. Through the Association's far-flung contact and with the aid of experienced hands to carry on the work, this division is performing a public service which warrants the support of every good citizen.

**PUBLICITY DIVISION:** Endeavors to educate the American public through the public press to the fact that the man who likes to shoot is not a criminal and, although its services are intangible in character, it represents an important chain in the campaign "to make America, once again, a Nation of Riflemen."

### Officers of

#### THE NATIONAL RIFLE ASSOCIATION OF AMERICA

GUSTAVUS D. POPE  
President

LT. COL. L. W. T. WALLER  
First Vice-President

LT. COL. N. C. NASH, JR.  
Second Vice-President

MAJ. GEN. M. A. RECKORD C. B. LISTER  
Executive Vice-President Secretary-Treasurer

## CONTENTS

<b>Powder Smoke</b> .....	4
<b>Better Light—Better Scores</b> .....	5
By A. N. TUTTLE	
<b>Last-Day Deer</b> .....	6
By HAROLD WALES	
<b>Battling the Buck</b> .....	8
By ELLIOTT JONES	
<b>What Made the Spark</b> .....	9
By CHARLES T. HAVEN	
<b>The Kentucky at the Plain of Chalmette</b> .....	13
By HARLOW PEASE	
<b>A Visit to Our Old Friend Shiff's</b> .....	14
By FLOYD R. BUTLER	
<b>A Shotgun Rechoking Tool</b> .....	16
By MUSE DAVIS	
<b>Your Choice</b> .....	17
By WILLIAM H. BRADDOCK, M.D.	
<b>Reminiscences of a Happy Hunt</b> .....	19
By P. H. MANLY	
<b>An Indicating Target</b> .....	20
By F. C. NESS	
<b>Barrel-Length and Gun Balance</b> .....	21
By WALTER F. ROPER	
<b>The .25-20 and Its Grandchildren</b> .....	22
By ALLYN H. TEDMON	
<b>Short Articles</b> .....	25
<b>N. R. A. News Items</b> .....	26
<b>American Rifleman Index for 1937</b> .....	34
<b>Correspondence</b> .....	35
<b>Dope Bag</b> .....	39
<b>Arms Chest</b> .....	48

Published monthly by the National Rifle Association of America, Barr Building, Washington, D. C.—C. B. Lister, *Managing Editor*; L. J. Hathaway, *Editor*; F. C. Ness, W. F. Shadel, *Associate Editors*; F. A. Moulton, *Advertising Manager*. 25c per copy. By subscription \$3.00 a year in U. S. and Possessions, and throughout North and South America; two years \$5.00; foreign \$3.60 a year; two years \$6.50. Entered as second-class matter, April 1, 1908, at the Post Office at Washington, D. C., under Act of March 3, 1879. Thirty days' notice required for change of address. Copyright, 1937, by the National Rifle Association of America.

# POWDER SMOKE

## A Merrie Christmas

*"Twas the night before Christmas, when all through the house  
Not a creature was stirring, not even a mouse;  
The stockings were hung by the chimney with care,  
In hopes that St. Nicholas soon would be there—"*

IF one of the more popular "Vox Popping" radio announcers should ask his unwary victim to identify Clement C. Moore, it is more than likely that he would merely be answered by a blank stare, and that most of his listeners would swiftly run over the names of baseball pitchers and movie actors in a hurried but vain attempt to prove their own super intelligence by beating the poor fellow standing by the microphone at the game of remembering.

For who is Clement C. Moore, anyway?

He is merely the man who provided us with one of the greatest and most popular pieces of poetry ever written in the English language—a poem that has become recognized as the perfect symbolic expression of the buoyant spirit of good fellowship which pervades the very atmosphere at this time of year, causing us to gradually set aside our own daily cares and troubles in preparation for the year's grandest festival, whose climax was so ably described by the almost-forgotten Clement Moore.

The entire month of December takes on an atmosphere of festivity toned down by a thoughtful and solemn respect for the feelings and needs of our friends and associates. This has become the season for the strengthening of family connections and the drawing together of bands of kindred hearts for the purpose of mutual advancement. The season when we review our actions of the past twelve months in search of errors which may be easily corrected so that our future efforts will be of even more benefit to our associates. On the night before Christmas we want our house to be strictly in order, with all the petty problems of the past solved and forgotten so that we may step off in the New Year with a clearly defined path of broadening usefulness.

That is true not only in our own individual lives, but in every group activity in which we are participating. We, as shoot-

ers, want to grow increasingly mindful of the problems which are being met by other marksmen, and, through our Association, we want to be better prepared to produce the proper solutions to those problems.

We can see, for example, that great strides were made during 1937 towards the development of the shooting game as a competitive sport, and we can trace this development to the standardization of the method of conducting pistol and rifle matches throughout the country. But we can also foresee an even more rapid development through the modification of some of the regulations which apply to registered tournaments. The necessary changes should be made.

We can also look back upon a year that saw the average American citizen obtaining a more enlightened viewpoint toward the possession of firearms by straight-thinking shooters. We recognize the advantages to the nation of this liberalized attitude, and we can expand our efforts at further education of the public. We can all check back over the published record of the activities of our Association, and select those activities which should be emphasized to a greater extent in order to make the Association of increased value to our fellow marksmen.

Sometimes our most valuable gifts are those unnoticed benefits which we derive only indirectly through the thoughtful efforts of some individual who paused in the rush of other activities to think through a problem for us, even before we knew it existed. We can be grateful even though the identity of our benefactors is yet more obscure than that of Clement Moore, and we can in our turn find time to slip a similar indirect gift to our thousands of shooting friends, remembering St. Nick's advice that the true Christmas spirit calls for

*"A Merrie Christmas to ALL."*

# *The* **AMERICAN RIFLEMAN**

DECEMBER, 1937

## **Better Light—Better Scores**

*By* A. N. TUTTLE

**T**HE title "Better Light—Better Scores" probably sounds familiar. There is a well-known advertising slogan which reads, "Better Light—Better Sight." The title of this article is just as true as the original. The usual indoor range lighting facilities are about as archaic as the muzzle-loader, and not as good from the standpoint of producing good scores.

The usual method of lighting a range is to put as much light as possible on the targets, without glare, by means of light shielded by some sort of reflector, from the firing point. If the firing point is lighted at all the illumination is inadequate and is always turned out before firing begins. Probably in the early days candles or a lamp with a reflector was placed in front of the target. That was the best that could be done with the materials at hand. It is our fault if we follow blindly, using the same scheme and not taking advantage of the much-improved equipment we have available today. Both the scores and the social atmosphere of the range can be improved when proper consideration is given to the lighting.

Since most ranges are used by both pistol and rifle shooters, the effect upon each has to be taken into consideration. The improved lighting will raise the pistol-shooter's score. In the case of the rifleman it is doubtful if the scores will be affected, but he will benefit from more pleasant surroundings and easier working conditions, and will welcome the better light after a fair trial.

There is a marked difference in a definition of the sights under indoor and outdoor conditions; at least this is true with most of the shooters with whom I have discussed the matter. The sights seem to grow a large amount of "fuzz" indoors, and this "fuzz" represents several thousandths of an inch and varies with the individual and his condition from day to day. The effect of this "fuzz" is apparent. One cannot expect to accurately line up sights when it cannot be determined where the edges of the sights are.

The eye contains a very fine lens with an adjustable focus. There is a set of muscles which varies the thickness of the lens, and consequently its focus, as the distance from the eye to the object being observed varies. It is not possible, however, for these muscles to find an adjustment which will sharply define the bullseye 60 feet away and at the same time the sight only about 2 feet away from the eye. They seem to accomplish this result, though, when out-of-doors, and there appears to be a reasonable explanation for this.

There is an excellent analogy between the eye and the camera, and a study of this analogy brings out a quite probable explanation for the difference between daylight and indoor-shooting conditions. Immediately behind the lens of the eye is an iris shutter, or diaphragm, which opens or contracts, controlling the amount of light entering the eye. In the camera there is a similar diaphragm used for a similar purpose—that is, controlling the light entering the camera. In doing this it also does something else. It affects the depth of focus. The smaller the opening, the greater the depth of focus. At the smallest opening the camera focuses objects from a few feet to infinity. At the widest opening only the object at the distance the lens is set for will be clear; closer or more distant objects will be blurred. Apparently this same thing occurs in the eye. Out-of-doors the bright light causes the diaphragm to contract to a mere speck; consequently the depth of focus is great, and both the target and the sight are clear. At least this is true of the individual with nearly normal vision. Indoors on the usual range, which is almost dark, the diaphragm is expanded to almost the full diameter of the pupil, or lens, with the result that the depth of focus will not include both the target and the sight, so you have either a fuzzy sight or a blurred bullseye.

There are probably other factors affecting this depth of focus, as it is apparently less noticeable to some individuals than to others.

It is evident, then, that if we can raise the illumination of the range, not only at the target but all over (and particularly at the firing point), this depth of focus will be increased. Increasing the depth of focus to a greater or less degree, depending upon the individual, will affect the definition of the sight and bullseye. Just how far this should be carried is not certain at this time. General Electric Company lighting engineers say that 20 foot-candles would probably give good results, but that more would be desirable. The foot-candle is a unit of measurement of light, and instruments have been devised for reading directly the amount of light that is present at any point. So far the Buffalo Rifle and Revolver Club, where our experimenting was done, has not reached even the above level. However, the results are encouraging, and the job will probably be continued this season.

*(Continued on page 36)*

# Last-Day Deer

By HAROLD WALES

**C**LEAR and wild the howl rose in the night.

"Wolves," someone lisped nervously.

The camp fire outside the tent burned low. Darkness closed in. Twenty men snuggled in their blankets, rustling the straw bedding. A hillman drawled softly:

"Wait till we hang a deer tomorrer. Wolves'll come from miles around to the smell of blood. Bobcats, too. Cowards, all of 'em—slinkin' in the dark outside the light from the camp fire. . . . Wait till tomorrer!"

Tomorrow! The joy of the hunt, the thrill of the chase. Plenty of deer signs had whetted our impatience when we made camp the day before the opening of the deer season in the Ozark National Forest, Stone County, Arkansas. We found

Hills and drive captain, explained the drive. Ranse Blankenship with his hounds and two men would drive Turkey Mountain across Bearhead Hollow. Men would be placed on stands on both sides of the mountain, and three men were assigned to the Game Refuge line.

The drive was air-tight. Somebody would get a shot at a buck!

Single file, Dan leading the way, we set off in heavy silence. As we moved up the hollow Dan assigned hunters to stands, and whispered instructions. He left me on the next to last stand, and, with Scotty Whittaker, the camp captain, went on to cover Cartwright Gap. No sooner had they disappeared in the underbrush than the hounds struck up a trailing bawl.

Across Turkey Mountain the hound chorus sounded muffled, indistinct. But they were getting closer. Yells of encouragement burst from the drivers. The chase was headed my way.

With quickening pulse I awaited the drive. An eager note crept into the hounds' mad bawls. The deer was headed for the Refuge. It would probably cross my stand. I listened for telltale footfalls, the rattle of antlers in the thickets.

Centuries of waiting. My brow moistened, despite the bitter cold. Dimly I heard furtive footfalls rattle the leaves on the mountainside. Heart beating wildly, I scanned the point.

An indistinct gray shape descended the slope with peculiar rabbit hops, half concealed by the thick underbrush.

Slipping the safety, my eyes swept along the barrel. The animal disappeared in the brush. All I could do was wait. And hope.

As my nerves reached highest tension, a deer slid into an opening in the forest. My heart sank and I lowered the gun. It was a doe. For long seconds I admired the



tracks on every crossing, where deer descended the points to cross to the Game Refuge. Up Bearhead Hollow, where we made camp, we found cedars scarred by antlers, and scrapings where bucks had pawed the earth.

It was hard to realize we were camped but a few miles from civilization, where paved highways threaded the hills and cities bustled with industry. It was hard to picture this arboreal retreat, where wolves howled and startled deer tread the pine forests, in the middle of a vast commonwealth.

As the soft whisper of wind in the pine trees outside the tent lulled me to sleep, I wondered if I would be the lucky hunter on the morrow.

Cook called early. Tantalizing odors of frying ham and boiling coffee drifted into the tent. Pulling on our boots, we stumbled sleepily outside into the biting chill of early December morning.

A glimmer of light spread on the eastern horizon, and heavy frost glowed in the dark hollow. With lusty "br-r-rs" we washed in the icy creek. After a hasty breakfast Dan Layton, native of the Ozark



THE AMERICAN RIFLEMAN



sleek animal as it paused to test the wind. Then the doe raised her head alertly, and with a flick of the tail was off into the forest.

I heaved a sigh of relief.

Still the hounds continued their haranguing. Encouraged by yells from the drivers, their soulful bawls reverberated in the heavy stillness of the hollows. Suddenly the chase veered, continued toward Cartwright Gap.

Then it was another deer, I reasoned; perhaps a buck. "Cartwright Gap . . . Dan and Scotty . . . Look out!"

My ears pounded to the clamor of the chase. Anxiously I awaited the crack of a rifle. When it came it sounded close, almost too close for Dan and Scotty. Two hunters joined me from stands down the hollow. "Meat on the ground!" Marvin Chism rejoiced.

From Turkey Mountain Ranse Blankenship's horn echoed clear as a bell. Four blasts—the end of the drive. As the echoes died away voices drifted down the mountainside; voices packed with excitement. We waited impatiently, trying to get a glimpse of the hunters returning with their burdensome kill through the underbrush.

We were unprepared for their story. Scotty had shot at a large buck. The deer flattened and Scotty, thinking he had killed it, was thrown off guard. As he ran toward the deer, it jumped up and bounded away.

As we returned to camp we heard other drives. Now and then the report of a gun sounded in the distance, announcing some lucky hunter had got his chance at a buck. The woods were alive with hunters; we passed them on stands, met them stalking through the forest, red caps bobbing against the somber background of hardwoods. The deer that escaped would flee to the Refuge. No meat in camp. It looked bad.

Flames leaped high to meet the darkness, lighting drawn faces of twenty unsuccessful hunters crowding around the crackling pine-log fire. Reports of kills in other camps went around the circle of dejected hunters. As night deepened in Bearhead Hollow, cold and still, we discussed our plight:

"No meat in camp . . . Deer all in the Refuge . . . Only one more day to hunt."

Talk of killing a doe drifted into the conversation. Hunters voiced their objections. In no uncertain terms I made myself clear: "I wouldn't kill a doe if I knew I could get away with it." "Dad" Elton, sixty-year-old hillman with over fifty deer to his credit, imparted sound advice: "Them deer won't stay in the Refuge. Tonight they'll cross the line to feed in the hills. I'll bet my hat they's a big buck on Turkey Mountain right now!"

I agreed with the old hunter. Deer are often killed in woods that have been driven the day before.

Morning brought new courage. Overruling the objections of some of the hunters, the drive captain decided to drive Turkey Mountain again. But before we started for the stands another party drove up in cars, and indicated they were going to make the same drive.

It was the last straw. Hard luck had pitched camp with us in Bearhead Hollow. Calling me aside, Dan Layton whispered: "It's every man for himself; these woods are alive with hunters. It's up to us to bring in a buck. Are you with me?"

"Till the last drive is made!"



"Here's the plan," Dan explained, eyes glowing: "This other bunch has run in ahead of us to drive Turkey Mountain. They haven't got enough men to cover all the stands, and we'll beat them to the best stands. You and I will hustle up to the White-Oak stand, and take advantage of their drive."

Dan's coup flashed through my mind. The White-Oak stand was between Turkey Mountain and Bee Hollow. It was a direct crossing to the Game Refuge. I was off in long strides, keeping pace with this shrewd hillman with difficulty.

At the White-Oak stand Dan left me, to scout on Turkey Mountain. Shivering with cold, I watched the rays of the rising sun gleam in the network of frost-covered branches. All around me was still, deep forest, thick with underbrush except where a fire-trail threaded the crossing, which afforded a clear view in both directions, where the deer must cross.

The distant bawl of a hound broke the tension of waiting. Tuning my ears to the distance, I listened to the trailing bark of an unhurried hound. It was

(Continued on page 37)

# Battling the Buck

By ELLIOTT JONES

**B**UCK fever in match shooting is most often contracted by those who are allergic to the "pressure" of competition. Aspirin, Bromos, and even more agreeable medicines in flatter bottles, do not seem to cure this "Black Death" that puts bullet holes in the white. One attack does not immunize against a second, and "there breathes not a man with soul so dead" that he cannot catch it.

Great laboratories full of sparkling test tubes, scientists in white coats glaring at bubbling retorts, and even the candid camera, have not eliminated this stalking plague. It is not caused by a virus. It is not caused by a germ or a miasma rising from a dank fen. It has, however, been diagnosed by some authorities as arising from a terrifying set of vocal vibrations that run somewhat like this: "Ready on the firing line—fire at will"; or "The next order will be five shots in ten seconds. Lo-o-o-a-a-ad, and lock your pieces."

Then epidemic strikes—here, there, but not everywhere. The results are usually the same for all the smitten shooters. Little black dots begin to appear on the white parts of the targets, making them look like the maps that hang in directors' offices to show where vacuum cleaners have been sold in South Potbury. But though the results are similar, the symptoms vary widely. Some people have a great deal of trouble with their knees. They seem to have joints that want to bend in rubbery fashion in any old direction, or fold back like a rabbit's hind legs. Others have hearts that begin to thump like the landlord on the first Monday after the first pay day of October. Still others notice little breezes that whistle around their stomachs as if some buttons were suddenly missing.

It has been said that the best doctor is one who has had a disease himself, and it is in that spirit that a few suggestions on putting "The Buck" in his place, are made. This particular "College of Physicians and Surgeons" has found that the best cure is constant match shooting—shoulder-to-shoulder shooting. Practice develops the ability to shoot, but not necessarily the ability to shoot against the other guy. Postal matches are only the best way out of a tough spot. Sometimes they give the feeling of real competition; usually they don't even approach shoulder-to-shoulder match conditions—especially sometimes.

NOTE: The author of this article—Elliott Jones, of Greenwich, Connecticut, is a familiar figure on the pistol firing-line, in both this country and abroad. At the last Olympic games he was a member of the United States Pistol Team, and in the 50-meter individual match was high man of all English-speaking competitors, taking sixth place in the match. This in competition with European shooters who make 50-meter slow-fire practically their only type of pistol shooting.

At Perry this year Jones scored 192 x 200 in the International Pistol Team Tryouts, and 188 x 200 in the Match itself. These scores were fired outdoors on the 20-yard gallery target under anything but favorable weather conditions.

Jones is human, and has probably suffered the pangs of "The Buck" about as much as the next one, and what he has to say here should be of interest and help to all pistol shooters, and especially to the less experienced.—Ed.

Shooting consists of getting accustomed to one thing after another. First we get used to aiming; then holding and squeezing, and then all the other things which we learn to do one by one. The thing which we have the least opportunity to learn, and to get thoroughly accustomed to and familiar with, is match shooting. There are not as many matches as there are cartridges or guns or trigger-pulls in this world. Therefore some of us find ourselves a little taken aback by the strangeness, the tension, and the competition of matches. By going to as many as possible; by getting used to a trimming; by getting accustomed to the lower scores that fall to our lot in matches, we bolster up our confidence—not necessarily in winning, but our confidence in ourselves. We learn not to be under tension from expecting what cannot happen—that we will win. We learn not to be upset by the unexpected which is always sure to occur. In other words, we get accustomed to matches just as we get accustomed to aiming and squeezing. The total result of constant match shooting is that we get so used to matches, and so used to what we, ourselves, do in matches, that we are more apt to drift through without excitement; without the palsy of The Buck.

For those who cannot attend many matches, and for those who, although they do, still take a beating from Brother Buck, there are other remedies to try. So much of the Buck business is psychological that the methods of overcoming it are along that line.

The greatest thing to do is to get into "a world of your own." Kid your-

self. Mesmerize yourself. Put on blinders if you have to, but get yourself into such a frame of mind that you feel all alone on the firing line. Forget that anyone else is there. Put cotton in your ears, or rubber plugs at fifty cents, or chewing gum at a penny; but stuff them up! It is surprising how lonely you feel when all the popping and other sounds of the match die away into a hazy murmur.

You cannot stay in this world of your own, and relax, if you keep peeking at the other fellow's target to see if he is going to beat you. Keep your mind on yourself and your own target, for if you begin to worry about what Mr. Bullseye McRightwist Von Veering is doing, you are inviting the jitters.

Concentration is the key to good shooting. It must be so—it's in all

the books. So, plant your mind right on your own target. If it is, say, number twenty-three, then mutter over and over, "number twenty-three, number twenty-three, number twenty-three." This will not only help in keeping your mind where it belongs, but it will help in keeping the bullets where they belong. And that helps, too, in the Grand Aggregate.

Forget all the hubbub. Forget the row of targets. Concentrate so hard that it almost seems as if you were standing at one end of a tunnel, with your target at the other end. If the Buck is still kicking your gun around, take off your hat. Take out your ear plugs. Lay your gun down and walk over to your shooting bag and pick up something—anything. Throw it back and try to think of something funny. If you can't laugh, then get mad; but at any rate, forget for the moment about the shot you could not get off, and forget all about the timekeeper's watch, and all that. Then, as you find your composure returning, slowly put back your ear plugs, and get back into your tunnel again.

It is a common failing to think that we will do better in a match. Day after day in practice, when we get careless we are apt to say "Well, at the match I'll really bear down and won't throw a six like that." We are so apt to get into that frame of mind that it will carry over and bother us when we are in a match. Actually the opposite is true. We do our worst in a match. We should be greatly elated to shoot our average under stress. There is no reason in the world, unless it's luck, why we should expect a good score

(Continued on page 38)

# What Made the Spark

## Some Notes on the History of Gun Locks

By CHARLES T. HAVEN

Drawings by ELMER PRATT

THE mixture of chemicals we call gunpowder is of considerable antiquity, and its employment for the projection of missiles from a fixed tube probably goes back to the thirteenth century, but the interest of the hunter and sportsman was not aroused by the strange new engines until a means was devised by which they might be carried ready for use and easily discharged when game was encountered.

The first purely mechanical ignition system applied to the discharge of a hand firearm was the wheel-lock. The wheel-lock was invented in Nuremburg, Germany about 1515. It utilized the sparks resultant from the friction of stone on steel, in a very ingenious but somewhat complicated way. In this lock a serrated steel wheel was revolved by a stiff spring by means of a chain around its axle. The axle protruded on the outside of the wheel or lock plate, and was squared so that it could be wound up with a small wrench or key, called a spanner. The wheel was held wound by a sear of two levers which were pivoted vertically, that is, with their pivot pins parallel to the face of the lock plate. One of the levers worked into and out of a hole in the wheel, and the other was pivoted behind it to hold it into the wheel until the second one was drawn backward out of the way by the direct action of the trigger. The trigger of a wheel-lock arm was pivoted above the sear, and when pulled, drew the sear arm back or away from the muzzle of the weapon. The rim of the wheel came up through the bottom of the pan. The pan was so placed on the lock as to bring it beside the touch hole in the barrel when the lock was in position on a firearm. A flint holder was pivoted in front of the pan against a small V spring. The flint holder held in its jaws a piece of flint or iron pyrites, and brought this stone down against the wheel or the pan cover

with a steady pressure when it was drawn into place by hand. In most of the examples of this type of lock a sliding pan cover was held in place by an arm pivoted inside the lock plate in front of the axle of the wheel.

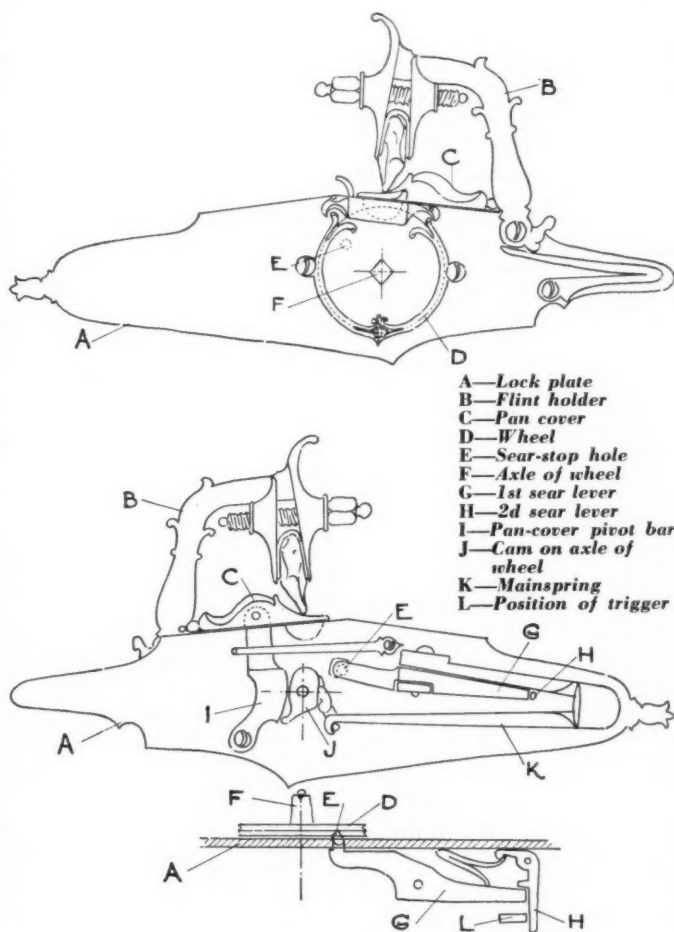
To load a wheel-lock arm the charge of powder and ball was rammed down the barrel and wadded into place. The wheel was wound up with the spanner, and powder was sprinkled around it in the pan. The pan cover was then closed and the flint in the flint holder was drawn down on top of the pan cover. When the trigger was pulled the wheel revolved and a cam on its axle threw back the pan cover. This brought the flint into contact with the still-revolving wheel, which ground out sparks that ignited the priming. The priming flashed through the touch hole, and fired the main charge of the arm.

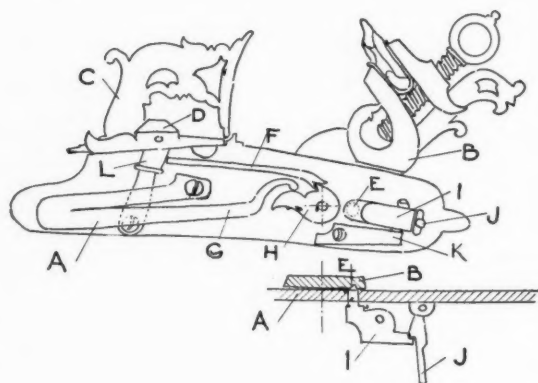
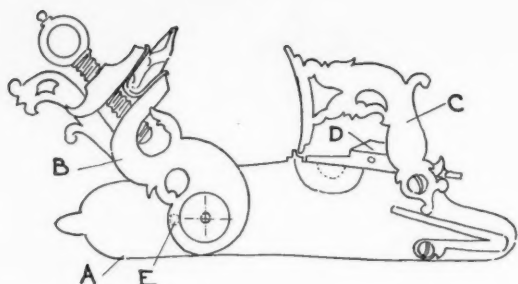
The wheel-lock was applied to all types of firearms, and was

used by sportsmen on smooth-bore guns, rifles, and fowling pieces. It was used on the highest-grade arms of its time, and especially in Germany continued to be manufactured well into the 18th century. It made the concealable pistol possible, and it was at least as sure of fire as anything that had come before it, or that followed it for over one hundred years after its invention.

The wheel-lock was, however, expensive to make and complicated to use. It was apt to get out of order, and an arm fitted with it was usually beyond the means of the average man. Two locks were developed independently within a few years of each other that made the discharge of a firearm both cheaper and simpler. The first of these was the snap-haunce or demi-battery flint-lock.

Figure 1 is of a typical Italian wheel-lock from a pistol made in northern Italy about 1620. It, as in the case of the other locks illustrated, is reproduced in





simplified line drawing. The drawing shows the important mechanical features, but leaves out such details as would tend to confuse the general picture without adding anything that would make clearer the working of the lock.

The name snaphaunce is supposed to be a corruption of the Dutch term for chicken thieves, who may have invented it, or else to apply to the motion of its moving member, which was more or less like the head of a hen pecking the ground. Despite the apparently Germanic origin of the name, the snaphaunce lock was most commonly used in Italy, although a few examples of a rare type are found in Scotland on the early Scotch Highlander pistols and guns. Dated specimens before 1600 are in existence, and the lock was probably invented about 1585. In the snaphaunce, a moving member called the cock was pivoted against the mainspring by a tumbler in the same place that the flint holder of the wheel-lock had occupied. A piece of steel called the frizzen, battery, or hammer was pivoted in front of the pan in the same place that the flint holder of the wheel-lock had occupied. The sear of the early snaphaunces was the same two-lever arrangement that was used in the wheel-lock, except that the end of the second lever came through the lock plate into a hole in the base of the cock instead of into a hole in the wheel. The sliding pan cover of the wheel-lock was retained exactly as it had been. A number of variations occur in the sear of the snaphaunce. The early Scotch locks used a single lever, with a projection on the end of one arm of it coming through the lock plate over the tail of the hammer. Later Italian locks used two other arrangements, of two levers, and the latest type of all used a single lever with its pivot at right angles to the lock plate. This sear was operated by a trigger pivoted in front of the sear which bore upward on the sear arm like a modern side-lock trigger. These three later types all held the cock back by their bearing against the tumbler on the inside of the lock plate.

To operate a snaphaunce, the piece was loaded and primed, and the pan cover shut, the cock was drawn back and the

frizzen was pulled down on top of the pan cover. When the trigger was pulled, the cock, holding a piece of flint in its jaws, struck downward across the frizzen, driving it back from over the pan. The pan cover either opened automatically by the action of a bar inside the lock plate driven by a cam on the tumbler, or else had to be slid back by hand just before the shot. The sparks struck forth by the impact of the flint with the frizzen, fell into the powder in the pan and fired the arm. There was no half cock on the snaphaunce, and weapons

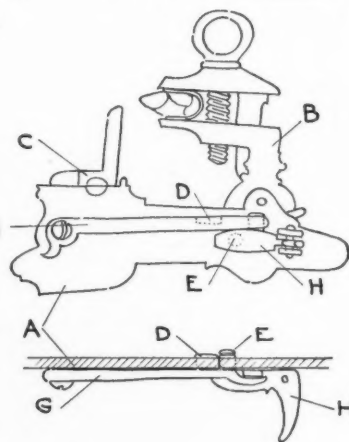
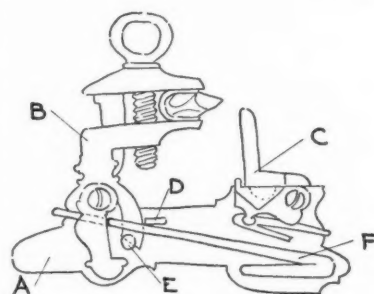
equipped with this type of lock were carried with the cock down and the frizzen thrown forward out of the way, but with the pan cover closed to retain the priming. The snaphaunce had the shortest vogue of any of the regular early lock types. It was seldom made before 1600 or after 1700. The Italian arms makers of the Brescian school, headed by the Commazzi and the Battisti, applied

the snaphaunce during this period to some of the most beautiful arms that were ever made.

Figure 2 illustrates a typical Italian snaphaunce lock of about the year 1630, showing the earliest type of Italian snaphaunce sear mechanism, which was similar to the wheel-lock sear.

A number of transitional and freak lock types appeared during the early 17th century, such as the Baltic pyrites locks, outside-mainspring wheel-locks, etc., but there is not room in an article of this nature to go into all their variations, since they exerted little if any evolutionary influence upon lock types in general.

In Spain, at about the end of the 16th century, a lock called the miguelet or miquelet was invented, supposedly by migueletos or bandits who could not afford the price of the wheel-lock or the advertising that went with the matchlock. The miguelet lock had its mainspring and cock assembly on the outside of the lock plate. The mainspring bore upward upon the heel of the ham-



mer, which was hung on a screw between an outside bridle and the lock plate.

The pan cover and the frizzen were made in one piece, and pivoted just in front of the pan. In order to carry this type

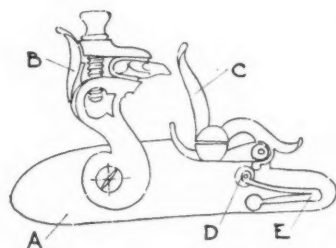


of lock with the pan cover closed to retain the priming, it was therefore necessary to provide a half-cock position in which the cock could not be accidentally released by a pull on the trigger. This was done by pivoting on the inside of the lock-plate a single sear arm that had a projection coming through the lock plate under the toe of the hammer, somewhat as in the early Scotch snaphaunces. This single sear worked against a long flat spring that came back from the front of the lock. A second hole in the lock plate allowed a thickened portion of the end of the sear spring to come through and form a full-cock stop above the end of the sear arm itself, which was used for a half cock. The toe of the cock rested on these stops in turn, and was held from easily slipping off of the half-cock stop by a deep notch cut in it. In use, the arm was loaded and primed, the cock set on the half-cock notch, and the pan cover shut. To fire it the cock was drawn back to the full-cock stop, and the trigger pulled. The trigger, pivoted above the sear and working back away from the muzzle of the arm, drew both the sear arm and the spring projection back flush with the lock plate, and allowed the cock to strike downward against the frizzen. The frizzen and pan cover were thrown back by the blow, and a shower of sparks poured down into the priming. The miguelet lock was used most frequently in Spain, and was made there until the middle of the 19th century. A variation of it was made to a considerable extent in Southern Italy, this being similar to the Spanish type except that the mainspring, instead of pushing up on the tail of the cock, with the shorter section of its V below the longer, pulled down on the toe of the cock, with its shorter section up. There were some other variations in sear assembly, spring position, etc., that were neither commonly made nor important from the point of view of evolution.

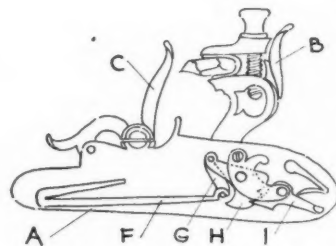
Figure 3 is of a typical Spanish miguelet lock dated 1700 but showing the usual features, which did not change in any important detail for nearly two hundred years.

The flint-lock proper was developed early in the 17th century, but did not come into very general use until after 1650. It combined the best features of the snaphaunce and the miguelet lock, and added a few new ones. The cock was fitted to a regular tumbler with an inside mainspring, and the sear was the single-lever laterally pivoted sear of the present side lock. The trigger was pivoted in front of the sear arm, and lifted it upward out of the tumbler notch when the trigger was pulled. The tumbler was cut with two notches, a deep one for half cock and a shallow one for full cock. The mainspring bore down upon the toe of the tumbler. In general principle,

the inside parts of this lock have not changed up to the present time. The frizzen and pan

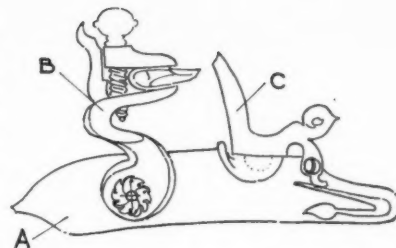


- A—Lock plate
- B—Cock
- C—Pan cover and frizzen
- D—Wheel on frizzen spring
- E—Frizzen spring
- F—Mainspring
- G—Mainspring link
- H—Tumbler and bridle
- I—Sear

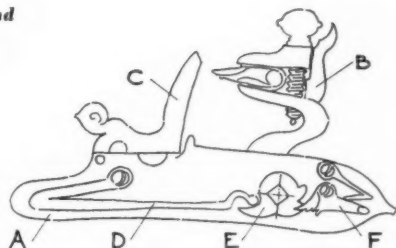


cover were in one piece, as they had been in the miguelet lock, pivoted against a spring just in front of the pan. The flint-lock was the cheapest and simplest of all the

stone-and-steel locks. It was used from the middle of the 17th century to the middle of the 19th for the majority of all firearms, and is still in



- A—Lock plate
- B—Cock
- C—Pan cover and frizzen
- D—Mainspring
- E—Tumbler
- F—Sear



limited use in some parts of the world.

During the latter part of the 18th and the early part of the 19th century, refinements and improvements were added to the flint-lock without changing the general principle of its operation. The gooseneck of the cock was reinforced to form a double-necked cock, a wheel was put on the frizzen at its bearing point on the frizzen spring, for quicker lock action, the pan was set up from the lock to provide a rain drain, the touch-hole was bushed with gold to prevent its rusting larger, and improvements were made in the shape of the powder chamber inside the barrel, for quicker ignition. The box lock, a type of flint-lock with a center cock that hung directly behind the barrel, with a trigger that acted directly upon the base of it, and no sear or tumbler, was developed early in the 18th century, and applied to small pocket pistols. But as the cock and frizzen were both in the line of sight, it was not used on long arms or on any weapon that was intended to be aimed. There were a number of other variations, including a very rare hammerless type fired by a flint carried in a straight-drive bolt operated by a spiral spring.

The flint-lock arm at its best was manufactured by the fashionable London gunsmiths, such as Joseph Manton, Durs Egg, Henry and Sam'l Nock, and others, between 1800 and 1820. Manton's shotguns would not seem unhandy to a modern hunter, and according to Sir Peter Hawker, they accounted for great numbers of game of all sorts. A really good flintlock was much quicker and surer of fire than the average modern firearms user realizes. Some very good skeet shooting has recently been done with a Manton flintlock shotgun, and a fair group with a flintlock duelling pistol can be obtained with a little careful practice in holding.

Figure 4 shows a typical Italian early flint-lock of very simple construction, such as was used in the late 17th and early and middle 18th centuries.

Figure 5 is of a typical late-English flint-lock, showing the refinements in use by the best of the London gunsmiths during the first twenty years of the 19th century.

The next step in the evolution of firearms ignition systems was the application to the discharge of a firearm of a chemical compound capable of producing fire when it was struck a sharp blow. This was first effected by a Scotch clergyman by the name of Alexander Forsyth. He did not "invent the percussion cap," as has been frequently stated.

The detonating qualities of the fulminates of a number of metals have been known since the middle of the 17th century, but explosives of their type were considered too powerful for

use in guns. Shortly before the year 1800 a number of French chemists began to experiment with the fulminates and with potassium chlorate to find a substitute for saltpetre in gunpowder. Such a substitute was especially necessary in France, as Napoleon was using a great deal of powder for artillery, and France had no adequate supplies of saltpetre available. Alexander Forsyth became interested in these experiments, and began to work with the detonating powders. It occurred to him that if he mixed the gunpowder in the pan of his flintlock with detonating powder, and struck the mixture a sharp blow with a piece of iron in the jaws of the cock, the explosion of the detonating powder would fire the gunpowder, and discharge the gun without the use of flint and steel.

In practice he found that the detonating powder went off so fast that it blew the gunpowder out of the pan without igniting it. He then confined the detonating powder in a depression having a hole leading directly to the main charge of the gun, and struck it with a piston so arranged that a large portion of the flash was driven into the powder. This system was perfected and patented in 1807, and worked reasonably well. Forsyth used several different magazines to hold the loose detonating powder that his locks employed. The earliest was one called the "scent-bottle" magazine, which was turned by hand to deposit a small quantity of detonating powder into a depression in its pivot, and then turned back to bring a piston over the powder and under the cock. A later type had a sliding magazine that was operated automatically by a link attached to the cock. When the lock was cocked the magazine was pulled over a cup, which was filled with detonating powder. When the trigger was pulled the link slid the magazine out of the way as the cock fell, and the nose of the cock struck into the cupful of powder. The application of loose detonating powder to firearm ignition was the contribution of Alexander Forsyth. He went no further, but others did.

Loose detonating powder was dangerous and inconvenient to handle, but the elimination of the ponderous flint and steel was too valuable an improvement to be laid aside. Between 1807 and 1825 the problem of the successful utilization of the new detonating powders was approached in many ways. Copper tubes of it were thrust into the touch-holes of altered flintlock guns, to be struck by the nose of the cock now called the hammer, and different types of locks were designed for the safe use of small quantities of it either in some form of copper container or made up in small pellets.

Figure 6 is a copy of the patent drawings of the Forsyth detonating lock of the first type.

The percussion cap in its most lasting form was invented about 1816, and has been attributed to a number of different persons, all of whom may possibly have hit upon it independently of one another. Sir Peter Hawker modestly admits that he invented it, and that Joseph Manton made the first gun that was fitted with a lock to use it. A Mr. Shaw of Philadelphia is also credited with its invention on reasonably good authority.

The percussion cap in its final form was a cup of soft copper which contained a small amount of fulminate of mercury or potassium chlorate. This cup fitted over a tube or nipple mounted on the barrel of a firearm, the tube being pierced to lead the fire from the detonating powder down into the gunpowder in the chamber. The cap was exploded by the blow of a hammer fitted to a regular side lock, with a mainspring, tumbler, and trigger action the same as in the flintlocks that had immediately preceded it. Some later percussion-cap arms had a back-action lock with the lock plate extending back

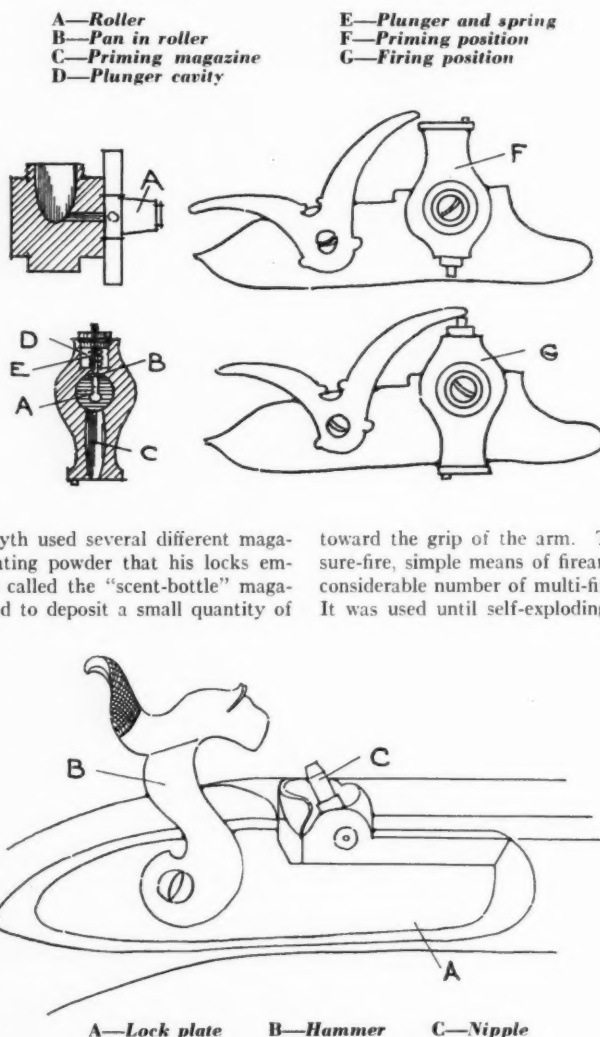
toward the grip of the arm. The percussion cap was a good, sure-fire, simple means of firearm ignition. It made possible a considerable number of multi-firing and breech-loading systems. It was used until self-exploding metallic cartridges superseded

all types of loose ammunition. A number of types of magazine primers were developed about 1850, and applied to regular percussion locks so that the former could be used instead of the single caps, as an aid to speed in loading; but they were no better as a means of ignition than were the regular caps. The Maynard tape primer, which held its priming powder in small pellets between two strips of varnished paper like a roll of modern toy-pistol caps, was one of these. The Lawrence disk primer, which

was fed from a magazine in the lock by a link-driver on the hammer was another.

The modern cartridge with its center-fire primer is simply a round of ammunition complete with a percussion cap containing its own anvil, put up in a convenient brass box which also serves as a gas check by expanding to seal the chamber of the gun at the time of discharge.

Figure 7 is a drawing of a typical percussion-cap lock in position on the barrel of a firearm, to show the nipple in its position relative to the hammer. The original of the drawing is a duelling pistol made by Constable of Philadelphia, about 1840.



# The Kentucky at the Plain of Chalmette

By HARLOW PEASE

"At three hundred yards from the works the troops trailed arms and broke into quickstep. Brigade-Major Whitaker, near the right and in advance of the column, was attending to the alignment. A single rifle-shot came from the American line. Major Whitaker fell from his horse, shot through the head. And at a distance of nearly three hundred yards! As if to warn us of the fate in store! He happened to be looking to the right at the moment, exposing the left side of his head to the terrible marksman. The bullet cut about half its diameter in the upper rim of his left ear, passed through his head, out at the right temple, and went on."—Captain Cooke's account of the Battle of New Orleans.

**H**ISTORY and tradition agree that January 8, 1815, showed a number of military novelties to a world then sated with war. To begin with, casualties on the one side of 3,326 and on the other of 21 indicated a ratio almost incredible even for an attack on an entrenched position. Add to this that the attacking force was, according to Lord Wellington, "the best army ever seen. It was an army that could go anywhere and do anything." And further that it was commanded in person by Wellington's chief of staff; that it outnumbered the defending force between two and three to one; and that on the front where it faced the frontier riflemen it broke into a rout before coming within a hundred yards of closing with the defenders—and small wonder that a distinguished citizen of Elba made a note that the smooth-bore muskets which had served from Rivoli to Leipsic must be obsolete in favor of rifled arms in his re-established Empire.

Notwithstanding the celebrity of this feat of American arms, a precise knowledge of what these weapons could do is far from general. Half-informed shooters of the present day will assert that the rifle of 1812 "would not carry 200 yards," and disparage the accuracy of the old flintlocks. Experiments in recent years have confirmed historical evidence; and contemporary accounts on the British side check with American claims of what was done by Jackson's marksmen. Authority for statements in this article are collected in a "History of Andrew Jackson" by Augustus C. Buell (Bickers & Son, London, 1904).

The type of arm used by the Tennesseans had a 40-inch barrel, weighed from 9½ to 12 pounds, and was generally of three calibers: .56, .45, and .38, then designated by bullet-weight as 32, 45, and 60 to the pound, respectively. Governor

Blount of Tennessee, in a proclamation issued in December, 1812 to the volunteers of that state, recommended that no rifles be taken "of less calibre than sixty balls to the pound." British commentators after New Orleans remarked: "The American hunting rifles carried small balls. One of our ounce musket-balls melted up and poured in their moulds would make three of them." And these writers seemed amazed at the penetration and effectiveness of these missiles. A .45 was a small-caliber arm according to the military standards existing then and for years afterward, but that these were not mere "squirrel rifles" according to modern notions, is clear.

In the type of arm described, certain qualities are obvious: (1) The bullet weight was sufficient for the development of good energy; (2) the barrel-length ensured maximum practical velocity with black powder; (3) the weight and length were calculated to help good holding, and (4) the length, again, permitted a long sight radius. With regard to accuracy, it is not out of place to note that the loading process provided a clean barrel for every shot—an advantage lost when the breech-loader appeared, until revived in the Pope system.

The above specifications indicate that the frontier soldiers had an efficient weapon. Their use of it on the plain of Chalmette has been described by combatants on both sides, without material variance. If ever "superiority of fire" was demonstrated, it was there. Except at one or two points of the engagement, it amounted to a monopoly. Part of the American line (the end resting on the river) was manned by U. S. regulars armed with smooth-bore muskets and bayonets; and here the British were able to reach a position of comparatively equal terms. Spies, however, had informed General Pakenham that the troops holding the two-thirds of the line resting on the swamp were "entirely unprovided with bayonets." He accordingly picked this end as the weak spot, directed his main attack against it—and the nearest his columns ever came (by actual measurement after the battle) was to within eighteen rods of the opposing line.

The rifle-fire commenced at a range certainly in excess of 200 yards, and each successive advance was destroyed by the time it had reached one-half that distance. Some deadly work was done—if we may believe the British officer quoted under the title—at close to 300 yards, but it is probable that at and under 200 was the

practical extreme range for most of the riflemen. General Adair of Kentucky pointed a mounted officer, and invited his champion marksman to "snuff his candle." This, the first shot fired according to three different accounts, dropped the officer from his horse at a distance of 220 yards. General Pakenham, leading the Scotch regiment which had gone through the Peninsular wars with Wellington, was struck by two bullets at once, one in the throat and one in the body. Officers and color-bearers were picked as choice targets. The following incident, related in Buell's book, is of interest:

"Most remarkable of all was the corpse of a tall Highlander, that lay at the point where the Ninety-Third broke. He was a color-sergeant and had carried the King's color of the regiment. Two bullets had gone through his head. One struck him just over the left eye and passed out back of the right ear. The other hit him between the right nostril and eye and came out through the left ear. As either wound must have been instantaneously fatal, it was clear that the two bullets struck him together; though, taking the angle at which they crossed in his brain with his distance from our rifle-line—about twenty-five rods—it was apparent that the two deadly marksmen who simultaneously drew their beads on his head must have been at least thirty-five rods apart in our line."

An official report of the British casualties put the number at 3,326, of which the British Medical Director said: "Of the total number about 3,000 were struck by the small bullets the American sharpshooters used in their rifles; the rest by the missiles of artillery or by the ounce balls used in the regulation muskets."

Certain historians have asserted that artillery played an important part. The evidence collected by Buell shows this to be an error. It is even of record that Jackson ordered one battery to cease firing before the first British advance, in order to allow the smoke to clear; and, in modern phrase, to "let somebody shoot that *could* shoot."

Many other details, omitted for lack of space, will be found in Buell's book, and will convince the skeptical modern that the Kentucky flintlocks were not confined to peewee shooting at pistol range. An important side-light, well established by the same writer, is the fact that the crushing of Pakenham's army, although it happened after the peace treaty of Ghent, was not a barren carnage, as some historians have characterized it. It actually saved the Louisiana Purchase to this nation.





*"Shift with the House of Shift"*

## A Visit to Our Old Friend Shift's

By FLOYD R. BUTLER

**O**UR trip started near the historic old town of Poultney, Vermont, my brother having told me to be ready at six in the morning.

Poultney was chartered in 1761 by Governor Benning Wentworth of New Hampshire, who received his appointment from "George the Third, by the Grace of God, of Great Britain, France and Ireland, King and Defender of the Faith," etc. This illustrious Governor, who was such a scoundrel, used his appointment for his own personal benefit, as did the rascally Governor Tryon of New York State, when they sold conflicting land grants, which stirred up a bitter border warfare that lasted for several years prior to the Revolution. Poultney, being so near the border, took its share of the scrap. Heber Allen, brother of Ethan Allen, made his home there.

A few miles to the north we struck Route 4, which runs east and west across the state. Very few persons know that this was once the Canadian Border. It still would be but for the daring and diplomacy of Ethan Allen and a handful of Green Mountain boys, who, with noth-

ing but words, drove back to Canada a British army several thousand strong that was encamped at Benson, a few miles to the north, during the latter part of the Revolution.

There were several forts along this route: One at Whitehall, at the head of Lake Champlain, another at the foot of Lake Bomoseen, one at Castleton, and another at Rutland. After passing through Rutland we began the climb over Mendon Notch, which is 2200 feet high. I well remember the first time, some twenty years ago, that I drove a Model T Ford over this road. My leg became so tired from holding the pedal in low gear for five or six miles, that I could hardly stand the pain, and the radiator was boiling so, that a person could scarce tell whether the vehicle was propelled by gasoline or steam.

Don's Plymouth made the grade without apparent effort, over the hard-surfaced road that has replaced the rocks and sand. At the foot of the grade, on the east, we came to West Bridgewater. Five miles south of this lies Plymouth, the birthplace of Calvin Coolidge. A few miles farther east we came to Bridgewater. Here, about

two miles north and half a mile up, Col. Townsend Whelen has his summer home, in a house built about one hundred and fifty years ago. His place commands a magnificent view toward the south and east.

We followed the Coolidge Memorial Highway to White River Junction, where we crossed the Connecticut River into New Hampshire. Still going east, we traveled past beautiful Newfound Lake, and into Plymouth, New Hampshire, home of the D. & M. Sporting Goods Company. Here we turned north and followed the Pemigewasset River valley up into the White Mountains, which seemed higher and more magnificent at every turn of the road.

When we rolled into "Shift the Gunman's" yard at North Woodstock, the place seemed deserted. However, as we had been there many times before, we weren't fooled by appearances, but went around back of Shift's woodshed to his farm, and found him coming out of his garden with an armful of luscious beets as big as baseballs. We looked at his grape vines, his strawberry patch, and his



pig. The thought of home-cured ham and bacon made my mouth water.

Shiff knew that although we like to see growing things, there are other things that we like better; so, without more ado he unlocked the massive iron-bound door to his gun room. Here was a sight to delight the eye of any gun-lover, whether his taste ran to old muzzle-loaders or the latest in hunting and target guns. And, to put it plainly, we are just crazy about all kinds.

Rifles and shotguns by the hundreds are ranged along the walls as thick as they will stand, showcases are filled, and guns in leather and canvas cases are piled beneath the tables and under the shelves. I noticed a cabinet filled with all kinds of sights, old and new.

Shiff handed me one of the rare Jennings repeating rifles. It has a tubular magazine that loads through a gate at the muzzle, and the latter has to be elevated each time the action is operated. The spring follower that we are all familiar with hadn't been invented at that time. The rifle was made in Windsor, Vermont, and patented in 1858. As I understand it, the Jennings came first, then the Volcanic, then the Henry, and finally the Winchester.

The next gun to attract my attention was a huge flintlock Kentucky rifle, full-stocked with curly maple, and with a 51-inch barrel. I should judge it to have a 5/8-inch bore and to weigh at least twenty-five pounds. A good "Injun" gun.

Another gun that attracts a great deal of attention is a .30-'06 Martini "Free Rifle," that is very elaborately carved.

On a rack by themselves are several of Shiff's pets—single-shot target rifles. There is one Winchester, two or three Ballards, and several Stevens, all in marvellous condition and stocked with the most beautiful woods.

On another rack hang five or six Sharps target rifles—the finest guns in the world in their day. And if a person knows how,

they can still be made to shoot as well as ever.

On still another rack are several percussion target rifles, some very heavy, others lighter—but not very light at that, as those old-time gun-makers knew what modern gun manufacturers appear to be just finding out: that the heavier the barrel the less tendency there is for vibration.

In the showcases are percussion Colts galore, from the giant Dragoon down to the tiny side-hammer pocket gun. Colt revolving rifles and shotguns hang on the wall.

Some years back I was very much interested in a series of articles by the late Henry Walter Fry. One was about the .44 cap-and-ball Colt revolver of the Civil War period. In describing this gun Mr. Fry writes: "The grip was very much superior to any American revolver of modern design, fitting perfectly into the hand with ample bulk in the upper part for the fork of the hand between the thumb and first finger and set in such a way on the frame that when taken with a full grip the first finger comes easily and naturally on the trigger. This form of grip was designed in the Colt factory more than ninety years ago, and has never been surpassed, and any alterations that have been made to it have only been changes for the worse."

This interested me, as I like to shoot this model Colt very much; and, being of an experimental turn of mind, I tried to put this grip on my Colt Single

(Continued on page 38)

#### Shiff with the "Injun" gun



A glimpse of the Green Mountains in Vermont



# A Shotgun Rechoking Tool

By MUSE DAVIS

## Any Amateur Gunsmith Can Make and Use It

**T**HERE is a decided swing toward ultra-short barrels on upland guns nowadays—and with good reason. Gunners are finding out that a light-weight short-barreled arm, with from 45 to 50% choke, is a deadly piece to use on quail, grouse, and woodcock. By ultra-short barrels we mean those from 22 to 25 inches in length. With one exception, arms manufacturers do not furnish such barrel lengths as standard equipment, and the sportsman who desires such a barrel must do one of two things: either order the barrel special, which will entail a high price and a long wait, or else have his present gun cut off to the desired length, and rechoked to the desired percentage. The latter alternative entails sending the gun to the factory and waiting from three to six weeks for the job to be done.

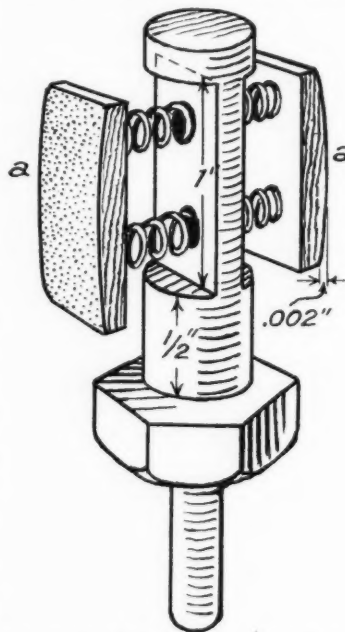
I wanted a short-barreled weapon, and I now have it. The cost was seven cents and a little time and patience. Here's how. Having on hand a 16-bore Winchester pump with full-choke barrel, I decided to sacrifice it on the altar of experiment, and see what I could do by way of improving it as an upland gun. I got my few tools together, and started in. First I cut the barrel down from 28 to 25 inches. . . . The die was cast; I had now either to finish the job or throw the barrel away.

We are all more or less familiar with the recess or jug form of choke which is ground in behind the muzzle of a sawed-off barrel. This recess is from .003 to .008" larger than the bore, is about an inch long, and is located about a half-inch from the muzzle. I wanted one like it in the Winchester, to give a 50% pattern. How to get it there was the problem, and the solution—which came after much sweating and stewing—was surprisingly easy and gave satisfactory results.

First, I got a  $\frac{5}{8}$ -inch bolt 5 inches long, which slid freely into the muzzle of the gun. I put this bolt in the vise and screwed the nut down as far as the threads permitted, tightening it there with all my strength. Measuring back from the nut toward the bolt head, I scribed marks at distances of  $\frac{1}{2}$  and  $1\frac{1}{2}$  inches. Then I turned the bolt over, and scribed marks at exactly the same points on the opposite side. A quarter-inch past the last mark I cut the bolt off. Next I sawed into the bolt at each mark, cutting more than a third of the way through. Carefully I chiseled out the metal between the cuts,

and squared up the two flats with a file, as indicated in the drawing. I next drilled two holes through the flats at points  $\frac{1}{2}$ -inch from the ends, as shown. The drill size was  $15/64$ -inch, and the holes accommodated two light coil springs an inch long. I then set this part aside, and began work on the abrasive element.

A piece of seasoned hickory was whittled into a dowel, and sanded and polished until it fitted the bore of the gun. A section of the dowel an inch long was cut off, and split lengthwise. These half-cylinders (a, a) fitted into the cuts on the bolt. I sanded the bottoms of them until, when in place, the assembly could be pushed into the muzzle of the gun. I then beveled the hickory pieces on the bearing surface so that they were .002" low at each end, as shown in exaggerated form in the drawing. Then I cemented



fine emery cloth to them, and called the job finished. I was a bit hasty, however, for I found that my breast-drill chuck would not take the threaded end of the bolt; however, I soon worked this down to proper size, taking care to keep the stem in perfect alignment with the rest of the bolt.

The first hickory section was set into its cut, then the springs were put into the holes, and followed by the second

hickory section. With the hickory blocks pressed in against the springs with the fingers, I gingerly inserted the gadget into the barrel, attached the breast drill, and began cranking.

I had expended considerable time and patience before the emery cloth was worn down uniformly all over, showing that the proper shape of "choke" had been ground into the barrel. Then I went forth hopefully, tacked up a big square of paper, backed off to 40 yards, and let off a shot. It was a new voice that cracked out from the muzzle in the spicy February air; a sharp, business-like utterance. I hardly glanced at the paper, but hurriedly took it down and put up a second piece. When five targets had been sprinkled, I began the tedious business of counting shot holes. A 30-inch circle drawn around the densest part of each pattern showed an average of 47% for the five loads, with a low of 45 and a high of 51%. That was pretty close to the desired density, and I went home to give the choke the final polishing, which I hoped would even-up the distribution.

The emery cloth was removed from the hickory blocks, and the wood coated with fine valve-grinding compound. When I had polished out the last scratches, I took out the tool, washed off the wooden blocks, and then replaced the tool in the barrel. The friction of the tough hickory mirrored the surface of the recess. Patterns then ran 48, 50, 49, 50, and 53 for five shots—an average of exactly 50%. Distribution was very good—much better than that of the first patterns. Any quail caught in those patterns would have a hard time getting through.

It is almost impossible for one to cut off a gun barrel squarely, but by the simple expedient of smearing valve-grinding compound on the face of the nut which bore against the muzzle as the choke was being ground, I automatically squared the muzzle at the same time.

The cost of the gadget, as I have said, was seven cents. That went for the bolt. The springs, emery cloth, and hickory I had on hand. Returns on the investment are out of all proportion to the cost. To make the tool required four hours of work, which I thoroughly enjoyed. It can be used for 12 or 16-bore guns. Twenties require a smaller bolt. With straight instead of rounded wooden blocks, the tool can be used to grind out the choke in a constricted barrel.

# Your Choice

By WILLIAM H. BRADDOCK, M. D.

**A** DUD gets more out of the shooting game than an expert. Not possible, you say?

Tastes differ, of course. You get a big kick out of the stiffest kind of competition shoot, whereas the dud likes to loaf around, and is tickled to pieces with a 98. Each is bored stiff with the other's game; but you have the more fun, you maintain? So be it. And yet, there's a possibility you may be missing something. Consider.

Let me warn you, you'll have to work for it; in fact, you'll probably have to give up something, maybe a good deal, at the start. Everything worth having is like that, and besides, it is good for the soul; a wholesome offset to the selfish tendency of what is, after all, a somewhat individualistic game. And it will take time—years of it. But I'm telling you that there can be a bigger kick in it than in winning the President's Cup. Haw-haw, says you?

Got to catch you a young 'un, to start with; the younger the better, though it's never too late to begin. That's the nice thing about it; neither age nor sex is a bar. Still, you'll get best results by starting when they begin to evince a real interest, not merely the general interest of babyhood.

This seems to me the most important point of all. It is a psychological error to give the initial impression by saying "When you're bigger," or something of the sort. You are losing the opportunity to lay a foundation deep in the subconscious which will stand you—and him—in good stead all through his life. "Give us a child for the first seven years, and you may have him the rest of his life."

As I was saying, catch you a young 'un, boy or girl, 3 or 63—it doesn't matter, but preferably a year or two either side of 5. Circumstances prevented starting mine till around seven, but that couldn't be helped. Look around the premises: you'll probably turn up one or more that the missus claims are yours. If you are not that fortunate, there's still time, and in the meantime (or in any case, if you are that unhappy) borrow a neighbor's.

Now, get this right: Issue no invitations, no suggestions, no orders. Lay out a range, and start shooting. That's all. If there isn't a pair of big eyes somewhere around inside of 15 minutes (30 if you live in a city with street cars and other noises), the fishing isn't good just there. Or else, that particular fish

will never serve. Try again. But that isn't necessary once in a thousand years.

So, there are the eyes. He's nibbling, but don't strike yet. Just a friendly look, or a casual "The door's back there—come in, if you want to," and go on shooting, for the test is at hand.

If he starts fingering things, or asking obvious questions, it's just an ordinary specimen. Well worth while, mind you, but nothing extra. But if he neither fingers, fools, nor talks, but just sits, his soul in his eyes, play that one carefully, for you have a prize. (By the way, don't be fooled by glasses. They are a handicap, yes, but if the trouble is correctible, no harm is done. My specimen assays at 20/200, correctible to 20/20, bilaterally.) Issue no invitations, even now. Just wait till next time; the eyes will be there. . . .

They are. You can safely unbend. "Like to shoot?" The true breed will not be able to speak; something comes up in the throat, and shuts it off. You may get a nod, likely not even that, but you'll understand, for you may have to swallow a little something yourself. But don't let it get you, for what you have to say now is quite possibly the most important thing you will ever say. Something like this:

"Glad to let you. Glad to teach you, if you like, and if your folks will let you. But it is a man's game, and unless you do exactly as I say, you may shoot someone, even yourself. It has been done." Further conversation is not necessary.

Now, right here, I quarrel with the book. It says not to let 'em put shell in breech until they can make little, little triangles, and all that stuff. Not at this stage, I hold. That comes later, when the horizon has opened out, when ambition has awakened, when possibilities are realized as possibilities, when desire is born. Just now it is simply unnecessary cruelty—and bad technique. A short lecture on aiming, breathing, squeezing, a few dry shots, and when you are satisfied—not before—slip a shell into the chamber. Don't be afraid to use your own rifle, laid across a sack or a box. (We're speaking of .22's of course; the cannon comes later.) If you happen to have a little rifle, fine. You'll need it anyway; but in any case, use the same shells you put in your own rifle. Psychology again, you see.

But all this is detail. The important thing is a hole in that paper; preferably a 7 or better, but without fail a distinct and

indisputable hole. You can have it, if you lay the foundation right. Now solemnly mark that paper with all the usual details in the proper places, not forgetting the date. The words "First Shot," if applicable, are also in good form. Formally present the paper to the eyes, and your fish is hooked.

The rest follows like a flower growing; but it will save you several immense headaches if your fish somehow gets a membership in the N. R. A. J. R. C. That's too long to argue about here, but I wonder how they got along without it, years ago. And that reminds me: You may know all about the game, but take a shot anyhow at their instructor's correspondence course; you may be surprised. So, you're well started.

Now, to my way of thinking, the main point is to be ready to call it a day at any time, and fold up. At the first, least excuse, I mean. Not angrily, not harshly, not necessarily for punishment. Just firmly. "No, we've had enough for awhile. You're not paying attention; run along now and play. Maybe after a little, if I think you're up to it." Only if there was carelessness with the weapon is it all off for the day. That is punishment, and will not be necessary more than once or twice at the start, and again when he begins to know more than you do, somewhere along in the sharpshooter grades. Even apparent disobedience may be only fatigue, for remember, even with the best will in the world, little minds just simply cannot remain fixed for more than a short time. They're built that way.

The question of discipline, however, must arise, sometime, inevitably. But never any threats. Never any "You do that again, and I'll . . ." and so forth. Particularly if you fail to do so. Just state your case calmly at the outset, but make sure you are understood, for little minds don't always comprehend big words. "The least disobedience, the least carelessness, the least inattention, and we fold up." Only, put it in words of one syllable. "A joke, yes, but never any horse-play. This is man's business—dangerous. This is a real gun, not a toy from the 5 and 10; and it can kill." Thereafter, no further warning is necessary. Beware soft-headedness masquerading as soft-heartedness; weakness as kindness. Tears, teasing, coaxing, only make the matter worse.

But is it worth while? I'm telling you, fellow, you begin to reap your reward now, as early as this. Just notice around the house. Less squalling, less scolding,



fewer tears, more obedience. And a word in your ear: it's a happier, better home if friend wife too can make her occasional hundreds. That's where lots of clubs make a capital mistake, and it's the real reason for teaching the girls.

And now, let me inquire. Are you still under the impression that you are only teaching? You are? Well, well! Brother, you're dumber than I thought.

Well, so it goes, one step at a time, very naturally and happily. Just one thing, though, is distinctly up to you, and to no one else: there must always be a little steady push—imperceptible, but constant. To the young 'un, 18 is as far off as 80. Even to you those first qualifications come so easily you are likely to say—amazedly, a little contemptuously, "Why, this is easy."

Is it so? Wait awhile. There will be interference you don't look for. School you expect. But then there's baseball, swimming, a thousand such, every one highly desirable. Likewise music, art, even church; fill out your own list. And did you figure on girls—or boys, as the case may be? Wait till that upsets your apple-cart. The saving beauty there, though, is that the remedy lies right in your hand. Just set him to teaching shooting to the girl of the hour, or vice versa, as the case may be. It's a lot healthier than holding hands in a movie. And let me call your attention to an item you may not have noticed. The corner drug-store, or poolhall, or saloon, or whatever your particular devil may be, hasn't bothered you one bit. "But it couldn't be otherwise with mine!" You protest.

Oh yeah? No, there's no time to spare, if the Distinguished Bar is to be shot before he is 18. What with one thing and another, even the real, true breed will just about squeeze through, and you may be glad of those few extra months they allow. Those last few targets are hard—what I mean, *hard*—and there's no time to waste. Foresee obstacles and head 'em off; and keep pushing right from the start.

And now, let me pay my compliments to one unnecessary obstruction—and it may be you. That's the helpful brother who suddenly discovers a mission to help teach the young idea. I've just got my small fry safely through the preliminaries. He's about half-size, say, hot on his second or third Possible Bar, and all thrilled because he's shooting on the club range with real shooters. You're a decent chap, with a heart of gold, and you mean well. You range alongside, all loaded down with medals, trophies, and reputation, and you start loading down the boy with ideas about gloves and coats and sights and fancy ammo and all the gadgets. All perfectly correct; who should know if not you? And you throw quite into the shade the poor old tutor who hasn't a medal to bless himself with. You've forgotten more about shooting than I'll ever know, and you're 100% right—except . . .

Consider. Holding, breathing, squeezing, position—these are the essentials. The rest, without these, is simply—pardon me—fol-de-rol. We're trying to learn to shoot; we're not trying to make the International Dewar Team. The Possible Bar is just 80%—and quite hard enough too, thank you. Now, the rifle that can't make that, with or without fancy fixings, just simply doesn't come around the range, and the rest doesn't matter—at this stage. I may be wrong, but that's how it seems to me and see how it turns out.

I watched the damage being done, said nothing—partly because I really liked the chap, partly because every dog has his day—and bided my time. It was bound to

come, whether Mr. Distinguished Rifleman presently lost interest or not. Either way would be fine. Something in this fashion:

"Look, Son, all this stuff is perfectly good, and he's a better shot than I—and possibly you—will ever be. But, setting aside the money that all these gadgets would cost, and which we can't spare, how many Possible Bars have you?"

"Two."  
"That's 20 targets. How many have you on the third bar?"

"Four." (He doesn't have to look—he knows.)

"Twenty-four. Now: how many good targets have you made since Mr. Mann came along?"

This takes a little verification, for it was some time back, and memories are tricky. However, the dates the bars were awarded are on record, past dispute, and it will presently be agreed that we had 21, 22, or 23 good targets when we began to be upset, and only one, two, or three, whatever it may be, in the weeks or months since. "Tsnuff."

On the whole, I'm glad it happened. Something of the sort was bound to occur, sooner or later, and something was instilled at the time, that it has been good to see pop out later, at need, under seemingly very different circumstances. But at the time it was a sore trial of faith, courtesy, and self-control. (Perhaps that was not the least of the good results?)

Well, we squeezed through the Distinguished Bar qualification, and I thought I had my reward. It was quite enough

for me, and I didn't look for more. You'll find it enough, too, I suspect, if you ever get that far, and much better than many medals. But more was on the way: pure velvet, excess profits without any tax.

By this time we were working our way, year by year, through the C. M. T. C. Shortly after completing the J. R. C. course, my pair of eyes (how long ago that seems—and again only  
(Continued on page 38)







*Herman smoked a high-powered pipe when he worked*

## Reminiscences of a Happy Hunt

By P. H. MANLY

**I**T IS not the distance we travel, the money we spend, or the amount of game secured that makes a hunt a red-letter event, to be remembered in after years. It is the time of year, the place, the weather, and the friend or friends that are with us that make a hunt so enjoyable that it will never be forgotten.

The time depends upon the game to be sought. The place is right when the terrain is not so rough as to make the hunt a hardship instead of a pleasure trip. And, while a windy, rainy day may be perfect for ducks in the late fall, who wishes to hunt anything else in that kind of weather? Yes, the weather must be reasonable; and, last but far from least, the companions must be fit.

I wish now that I had taken some pictures on that hunt, but I did not realize then that we were making hunting history for ourselves—in those days that will never come back.

A certain little day's hunt in the Cascades twenty years ago stands out in my memory above all others—for there were no regrets, or wishes that things might have been different. It was on a day in October, perfect though cloudy. And it seems to me that game is more nearly prime in October than earlier or later in the year. September weather is too warm,

and the birds are not fat and mature. In November they are wild and poorer, and the deer are in the rut. Also the weather is too cold for one to stop for a smoke without building a fire.

My companion for the day was a boy of German descent past sixty years of age, named Herman. He had a small dog, a game bag made from half of a small gunnysack, a corn-cob pipe, and a double-barrelled muzzle-loading shotgun. My equipment consisted of a Stevens .32-20 rifle, a belt of cartridges, and another small dog. Our game was to be native pheasant (ruffed grouse) and silver-gray squirrels. The weather was just right for a comfortable trip. We hunted in those days by letting the dogs tree the game, and then bark. Those pheasants were not "fool hens," so do not think that anyone ever killed too many in a day. The birds were experts at hiding in a fir tree's foliage, and leaving when you looked directly at them. Seldom was more than one bird in four seen, bagged. The gray squirrels were also able to take care of themselves, by climbing the big pine trees, and hiding out. I wouldn't shoot one now, but we considered them game in those days, as even then there was no legal closed season of them during part of the year.

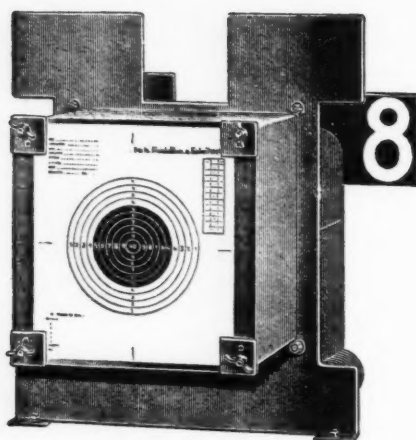
My friend and I met as arranged, and set off down the first draw. After about

a quarter of a mile one of the dogs gave a sharp bark, and a well-scared bird high-tailed out of the brush and arched high over our heads. Boom! Boom! went the muzzle-loader, but the bird only went faster—and farther. "Golly, but dot was a tough one—I couldn't kill him mit two loads of shots!" (Alibis were used in those days, too.) Followed the ceremony of loading; and I say "ceremony" because the proper loading of a muzzle-loader was an art. Then the corn-cob pipe was loaded and fired, for solace.

Soon a dog barked again, and Herman put a few shot into a gray squirrel's head that showed over a limb as he paused for a moment's rest in his climb for safety up a big pine. And so it went until noon, when we stopped at a spring for lunch. Herman had two pheasants and a gray, and I had the same. While the corn-cob was burning after lunch we heard the dogs barking, each from a different direction. We went to our respective dogs, and when we met again we had one more bird apiece.

We decided then to go up a swale. All at once Herman stopped, slowly swung his gun in a half circle, and the black powder spoke. He went over and picked up a brush rabbit, for a change. A little farther on both dogs barked at once, and we

*(Continued on page 35)*



## An Indicating Target

By F. C. NESS

WITH some skepticism I faced the Johannsen Automatic Indicating Target at 20 yards, and fired a .22 pistol squarely at it. At the impact of the shot a paddle swung out at 7 o'clock, and the big numeral on its 4-inch blade indicated an 8. I fired again, and two paddles swung out on the right side, indicating a 3 o'clock hit, both blades saying "9." The next shot snapped into position a red-and-white plate at the top of the target, registering a bullseye. As I finished the 10-shot string, both the value and the position of each hit were promptly and plainly indicated.

The amazing assurance with which this robot called hits was little short of uncanny. Two of us took turns scoring and shooting so that each shot would have a logged record which later could be checked against the imprinted record made by the bullets in the paper target fastened over the face of the machine. Upon checking called hits against the bullet holes, we marvelled at the machine's ability to accurately signal the location of each impact.

For the purpose of attracting spectator interest at our short-range small-bore shoots, some practicable method of visibly

registering each hit has long been sought. Electrical engineers like Doctor Loewenberg have striven to solve the problem by means of the photo-electric cell; but when Doctor Loewenberg saw this simple mechanical solution, it at once won his admiration and backing. It was he who had this first sample shipped across the Atlantic to N. R. A. headquarters for test. While our sample is probably the very first one to reach these shores, the device is not new, for the inventor—Hans Johannsen, of Sangerhausen, Germany—applied for his first patent about the middle of 1930. The United States patent, No. 1,853,979, was granted April 12, 1932.

This Johannsen Automatic Indicator is purely a mechanical device. It is strong and sturdy, and should be everlasting because nothing of a delicate or even semi-delicate nature is involved in its construction. With a paper target in place it looks like some big bullet-catching backstop, about two feet square. It weighs more than two hundred pounds, and retails for about "a dollar per pound."

Essentially this machine is a metallic 50-meter rifle target with movable scoring rings and indicators, both equipped for

automatic return to normal position. Beginning with the 9-ring and ending with the 1-ring, the scoring rings—of tough steel—are mounted one behind the other on a common-axis rod fastened to the 10-ring in front and contacting the bullseye indicator at the rear. In their supporting spherical collars, these scoring rings are free to oscillate or move back in any direction dictated by the bullet's impact. They are held in vertical or scoring position by spring-actuated horizontal rods, each of which contacts its proper indicator paddle.

Each of the ten scoring rings is held by eight horizontal rods, which are distributed around its exposed edge in eight different segments. The thrust of the bullet's impact, then, according to its location on a given ring, may push back any one of these eight rods, together with its respective indicator arranged to signal the location of the hit. These location segments do not give exact indications. For example, a hit anywhere between about 12:45 and 2:15 will register a general location somewhere between 12 o'clock and 3 o'clock. The indicators are thrust into view by inclined surfaces on the hori-

(Continued on page 38)

Fig. 1

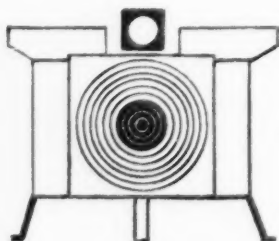


Fig. 2

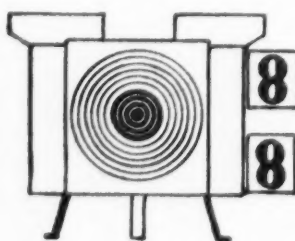
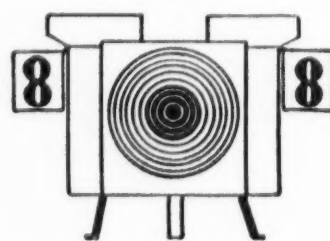
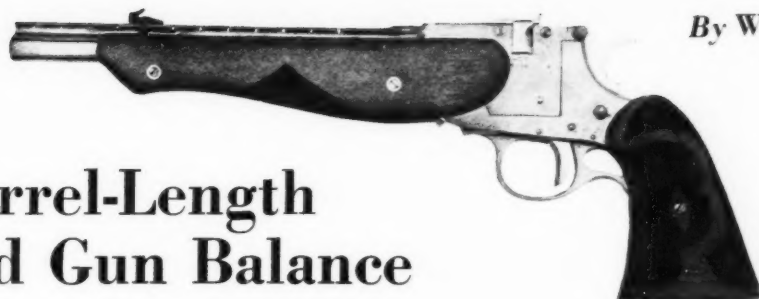


Fig. 3



By WALTER F. ROPER

## Barrel-Length and Gun Balance



**T**HERE is no getting around the fact that a lot of handgun shooters can make better scores with a 7 or 8-inch barrel single-shot pistol than they can with one having the 10-inch barrel allowed by the rules, and it is equally true that many shooters make just as good scores with a 6-inch barrel revolver as they can with any single-shot pistol, no matter what the length of the barrel.

In contrast to this "proof of the pudding" argument, however, is the fact—known by anyone who ever did any machine-rest shooting with single-shot pistols and revolvers—that to date no single-shot pistol with a barrel shorter than 10 inches has made quite as small groups at 50 yards as has the 10-inch barrel gun, and no revolver has made, or probably ever will make, groups equal to those regularly made by a single-shot pistol.

So we find ourselves up against a proposition that just doesn't make sense; for certainly we cannot admit that gun accuracy is unimportant, yet better scores are being made by many shooters with guns that are known to be less accurate. Dig into the problem, however, and you will discover the nigger in the woodpile; and here he is: Those shooters who can do better shooting with a short-barrel pistol or revolver than they can with the more accurate long-barrel gun do so either because the shorter sight radius fits their eyes better and actually allows them to do better sighting, or the balance of the shorter gun fits their holding ability better. It certainly is not because the short-barreled gun has any advantage ballistically, for it has not, as the machine rest amply proves.

A little study of this matter is both interesting and worth while, and just to get started right we may as well admit something that seems heretofore to have missed getting into print: that there are, and always will be, three things about handguns that must

be made to fit the individual shooter if he is to do the best shooting of which he is capable. These are the sight radius, the balance, and the stock. The reason is simple: Shooters' hands, eyes, and ability to hold, vary. Most shooters know now from experience that a stock made to fit their hand makes a decided improvement in their scores. Exactly the same individual fitting is needed for eyes and for holding ability. Some shooters can use the longest sight radius allowed by the rules, and gain by doing so, while others cannot shoot as well as with a shorter sight radius. Also, some shooters can do much better work with a very muzzle-heavy gun, while others find that a muzzle-light gun allows them to hold more steadily.

Now just suppose that you happen to be one who can actually sight more accurately with a short sight radius, but are able to hold a rather muzzle-heavy gun more steadily. Could you possibly do your best shooting with a 10-inch heavy-barrel pistol with the sights at the full 10-inch spacing? On the other hand, suppose you can sight better with a long sight radius, but need a muzzle-light balance to do your best holding. You would find a 7 or 8-inch pistol better in balance, but hard to shoot because of the short distance between sights.

Recently, in a short article in *THE RIFLEMAN*, the matter of sight radius was discussed, and the desirability of having it adjustable—at least on single-shot pistols—was pointed out. It is equally desirable to have the balance adjustable, as we

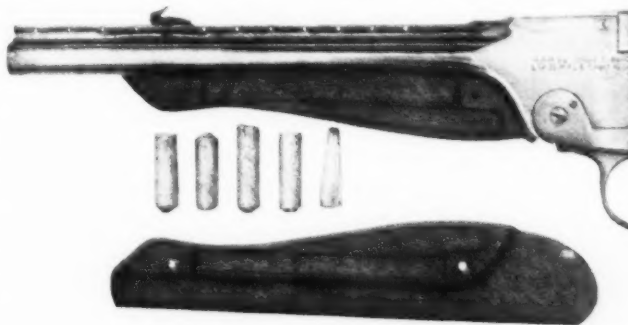
propose to show in this present discussion.

Balance in a handgun is that quality that makes the gun hang steadily when being sighted. It is particularly important in a single-shot pistol, as with this type of gun all shooting is deliberate slow-fire, and certainly should be the most accurate of any done with a one-hand gun. Balance should not be confused with the matter of total weight, for weight alone is not at all what is wanted. Balance is an individual proposition. Some shooters need a decidedly muzzle-heavy gun, while others do better shooting with a gun having less muzzle weight. The same personal preference exists as in tennis rackets, baseball bats, or golf clubs; and unless the balance is right for the individual, *he simply cannot do his best*.

Now, selecting, say, a 7 or 8-inch pistol in order to have either the balance or the sight radius right for one's special requirements, is certainly one way of getting approximately the results desired, but it is rather a crude way to do the job; for when the barrel is shortened, the accuracy is reduced, as the full 10-inch barrel is required to get maximum accuracy at 50 yards. One could change the balance of a golf club by cutting off the shaft, but that would hardly be the proper way to go about it.

What is needed and what we must have in order that each of us may do his best shooting, is a pistol so built that the balance as well as the sight radius can be adjusted to suit the individual, leaving the barrel of a length (within the rules) that will give the very maximum accuracy with the ammunition available. Our problem is therefore to provide a means that will permit varying the balance of a 10-inch barrel pistol so that each shooter may have the "hang" that is right for his individual requirements.

The starting point is a pistol having a barrel only as heavy as is needed for  
(Continued on page 37)





## The .25-20 and Its Grandchildren

By ALLYN H. TEDMON

**T**HERE has been a good deal said and written about that "thing," the all-around rifle. If such a shooting-iron could be found or developed, the chances are that it would be in .25 caliber.

The original .25-caliber center-fire cartridge was the .25-20 Single Shot, and H. A. Donaldson not long ago gave us an interesting account of its origin. Then the other day a letter from N. H. Roberts gave me more of the early history of .25-caliber rifles. In commenting upon the original .25-20 S. S. cartridge, Mr. Roberts said:

"My records state that early in 1880, Mr. F. J. Rabbeth, of the Mass. Rifle Assn., had the first .25-20 S. S. cartridge made by necking down the case for the .32 cal. Wesson rifle. This case held 32 grains of black powder when loaded through a long loading tube, and the bullet used was a grooved one weighing 76 grains. His first barrel for this cartridge was made for him by a man named Warner, of Syracuse, N. Y., who later formed a partnership for making rifles with a man by the name of Wm. V. Lowe, and made

rifles under the name of Warner & Lowe. Frank Wesson, Worcester, Mass., also made one of the first (probably the second) .25-20 barrels for Mr. Rabbeth. This information was given me by Mr. Rabbeth himself, so it is correct, and in October 1888, when calling on Mr. Gould he told me the same about the first .25-20 (single shot) barrels that Mr. Rabbeth had. The third barrel for this caliber was made for Mr. Rabbeth by the Remington Arms Co., as stated in Whelen's *The American Rifle*.

According to Mr. Donaldson, Mr. Rabbeth at first tried out a .28-caliber cartridge, but found it far too powerful for small-game shooting; and then it was that he turned to the .25 caliber. To quote Mr. Donaldson:

"He used the same 15/8-inch F. Wesson .32-caliber case, reducing it at the mouth to .25 caliber, thus making a slight bottleneck of it. And this is exactly the same .25-20 Single Shot case as we know it today, and from the very first it gave fine results as a small-game cartridge. Loaded with 22 grains of Hazard's No. 3 ducking

powder and a 67-grain bullet, this cartridge made an 86 on the Massachusetts decimal target, or 43 by Creedmoor count, with 10 shots off-hand, Mr. Rabbeth doing the shooting on the Walnut Hill range. In rest shooting he frequently put ten consecutive shots into less than a 2-inch group at 100 yards. The 100-yard mid-range trajectory height of Mr. Rabbeth's rifle, with 26-inch barrel and shooting the above load, was 1 1/2", and 9 1/2" for 200 yards."

Mr. Roberts' remarks that Mr. Gould (author of *Modern American Rifles* and then Editor of *Shooting and Fishing*) was very much interested in this new .25-caliber cartridge. In 1880 he tried to interest all our rifle manufacturers in it, but they turned a deaf ear. "Then in the summer of 1889," writes Mr. Roberts, "every one of these arms companies came out with rifles for it; or all the large firms did, and the smaller ones followed suit that autumn or winter. The Maynard Company was the very first to place a rifle for the .25-20 S. S. cartridge on the market, and a few weeks later the J.



Stevens Arms & Tool Co. brought out their old tip-up-action rifle for it; then W. R. A. Co., E. Remington & Son, Marlin Arms Co., Bullard and all the other arms companies (including Hopkins and Allen) got busy and soon had rifles for the .25-20 S. S. cartridge on the market."

In his book *Modern American Rifles*, published back in the '90's, Mr. Gould wrote on page 105: "There is but one .25-caliber central-fire factory cartridge, and it is known generally as the .25-20. Years ago the writer became interested in this caliber by the experiments of Mr. F. J. Rabbeth, and several barrels were made to take the different charges. The .25-20 met the ideas of the writer, but was discarded by Mr. Rabbeth, who sought the extreme express system in this caliber, and, I think I may add, secured it." In another place Mr. Gould wrote: "When the .25-20 rifle was originated, it was believed by the writer that it possessed superior merit for small game hunting; as the light bullet and large powder charge in this caliber gave a low trajectory, and satisfactory accuracy was maintained. When manufacturers of rifles and cartridges commenced producing these rifles and the cartridges for it, they disregarded the essential points in a hunting cartridge by increasing the weight of the bullet. Thus a superior hunting cartridge was transformed into an indifferent target cartridge; but happily the shells of this cartridge can be re-loaded, and a light bullet used for game shooting, and a heavy one for target work."

The twist used at the time was one turn in from 12 to 15 inches, depending upon the manufacturer. Today, as then, we are in need of a first-class bullet of not to exceed 70 grains weight, properly designed and to sell at a reasonable price. The present 60-grain open-point .25-caliber bullets are not well enough designed to be consistently accurate, there being too many fliers to satisfy a particular rifleman. The Peters 60-grain bullet is generally accepted as being the best of the lot now available.

In 1892 the Marlin Arms Company designed the cartridge known as the .25-20 Marlin, it really being the .32-20 case necked down to .25 caliber. Inasmuch as the original .25-20 S. S. cartridge was too long for the Marlin repeating action, the Company saw fit to make the cartridge to fit the gun. Not long after the appearance of the Marlin .25-20 Repeater, the Winchester Repeating Arms Company brought out a similar rifle in their 1892 model, using the same stubby .25-20 cartridge. These two little rifles have always been very popular with American riflemen.

There has been considerable written on high-velocity loads for the .25-20 S. S. cartridge, yet I think it wise to repeat some of this for the benefit of those riflemen who have just recently been bitten by the .25-20 S. S. bug. The black-powder loads that were most popular contained from 19 to 22 grains of the best powder behind cast bullets of from 67 to 77 grains weight. The 86-grain cast bullet

was never very popular with .25-20 S. S. men who knew their rifle shooting: it was too long and heavy for the standard twist and black-powder velocity, the bullets tipping badly. However, with a perfect cast bullet weighing from 67 to 77 grains, and proper charges of high-grade black powder, the best of accuracy was always had. The 22-grain charge with a 67-grain bullet has not been improved upon by any load as a killer on small game. For years I used the equivalent charge in smokeless and the same 67-grain Ideal bullet, and I can truthfully say that the most powerful speed-load possible in the same case is hardly a better, and certainly not a cleaner, killer.

Groups at 100 yards of 2 inches are not hard to get with the 60-grain open-point bullet in good rifles, using charges of 15, 15.5, or 16 grains of duPont No. 1204 or 4227 powder; or 13.5, 14, or 14.5 grains of Hercules No. 2400, depending upon the chamber of the individual rifle.

These loads give velocities up around 2400 or 2500 foot-seconds. They are considerably more powerful than the .22 Hornet, yet do not blow up an animal as does the .220 Swift and similar cartridges. For my part, I do not like any rifle that leaves nothing but a mass of pulped flesh and blood as the reward for a good shot, no matter how accurate or flat-shooting the rifle may be.

When using the 86- or 87-grain jacketed bullet, the above powder charges should be reduced generally about two grains. A really fine target load is from 11.5 to 13 grains of duPont No. 1204 or 4227 behind either the regular .25-20 86-grain soft-point bullet, the regular .250-3000 Savage 87-grain bullet, or the Remington 87-grain Hi-Speed bullet. In tight barrels try the Remington .25-35 87-grain bullet. At 200 yards off-hand this load will make a Hornet look sad, and even the best of the late .22-caliber 4000-foot cartridges have to be on the job to beat it. While the .25-20 Repeater cartridge is not as accurate as the Single Shot cartridge, yet by reducing the powder charges from 2 to 2.5



grains (depending upon the rifle) you will be able to work up some very nice target and small-game loads in this latter cartridge.

In the Colorado Rifle Club we have several .25-20 S. S. special rifles made up on Winchester, Sharps-Borchardt, and Stevens 44½ actions. One rifle in particular, with 14-inch twist, that was designed and barreled by E. W. Bres, Secretary of the Club, using a Sharps hammerless action and 27-inch barrel, gives 1½-inch groups at 100 yards with the 87-grain bullet. John Stokes, President of the Club, has a similar rifle made up by A. W. Peterson, that is very accurate. Lynn Chilcote's big Winchester, has crowded ten shots into a near-inch circle several times, loads in all cases containing from 11 to 16 grains of du Pont No. 1204 powder, depending upon the rifle and bullet.

Bres has a second rifle which is a duplicate of the first except for its 17-inch twist, that makes 3-inch groups at 200 yards with the 60-grain bullet and 15.5 grains of du Pont No. 1204. Other 17-inch-twist barrels have been giving good results with this cartridge and these loads, as reported in two recent articles in this magazine by W. F. Vickery and Frederick W. Beckert, Jr. I, myself, have a new 17-inch-twist barrel in one of my actions, but have not given it a fair try-out as yet; although a former barrel of the same twist shot well and showed reduced pressure with the 60-grain bullet.

The breech pressure of these high-speed .25-20 S. S. loads runs from 38,000 to 40,000 pounds, and all rifles in which such loads are used must have the firing pin remodeled, and only the best of the single-shot actions should be used. The barrels should be fitted to the actions, and chambered, by men who are experienced in working with high-intensity rifles. For this is no black-powder proposition by any means. The .25-20 S. S. case is a strong case, with a good, thick head, and of all the hundreds that we have fired here I have never seen one give way, or show signs of giving way. In fact the only .25-20 S. S. case I ever had break, broke in the middle of the body with a 4.5-grain charge of Unique and a 67-grain Western cast .25 R. F. bullet. The Remington No. 6½ primer is the one I use, though some of the fellows here use both the Winchester and U. S. No. 116 primers, with very good results. I have found that in a group fired with both primers, the loads using the U. S. No. 116 primer will strike from 1 to 2 inches higher on the target than those using the Remington primer.

There is an old and yet a new version of the .25-20 S. S. case which I shall call the .25-20 Donaldson. N. H. Roberts once told me that back in 1894 Reuben Harwood "improved" the .25-20 case by shortening the neck and enlarging the body, though, with the powders then available he was not satisfied with his results. However, Mr. Roberts believes that with our modern powders such a change should result in improvement, and give the cartridge more power. H. A. Donaldson has revived this idea of long ago, and has one fine old Maynard rifle for this modified cartridge, that shoots beautifully. He is very enthusiastic over the results he has obtained with it, and the idea should be very interesting to all .25-20 S. S. fans.

I shipped my .25-20 S. S. hunting rifle to M. S. Risley at Hubbardsville, New York, and had the chamber enlarged to take this .25-20 Donaldson case. This change shortens the neck to ¼-inch, and increases the powder capacity 25%; which increased volume may be taken advantage

much merit in common-sense loads. In fact more often than not the loads that carry the real accuracy are not the limit loads. For example, one of the most accurate loads obtainable for any good .25-20 S. S. rifle consists of from 4.5 to 5 grains of Unique powder behind a cast bullet of around 75 grains weight. Just to prove what this combination would really do, I recently loaded up a handful of cartridges for my Maynard .25-20 S. S. Rifle, using 4.5 grains of Unique and an Ideal factory-cast bullet of 80 grains weight (No. 25718). This 47-year-old rifle, with an old ivory bead front sight and Lyman rear, on a cold day and from an improvised rest, made an 8-shot group at 50 yards that measured just 1⅜-inch across centers. The two other shots of the string were pulled to the left by me. This load is among the most accurate loads known to our riflemen today. Mr. Donaldson's favorite squirrel load consists of 5 grains of Unique, and Loverin gas-check bullet No. 257420. This load is gilt-edge in accuracy,

and what a pleasure it is to shoot! And here we must leave the original .25-20 Single Shot cartridge, and consider its grandchildren.

About the year 1900, the J. Stevens Arms and Tool Company brought out a straight-case .25-caliber cartridge that they called the .25-25 Stevens. Then a year or so later they came out with a cartridge they saw fit to

call the .25-21 Stevens, but which was in reality a .25-20 S. S. with a straight case. But long before either of these cartridges appeared, the .25-Rim Fire had made its bow. Alfred Loetscher did a good deal to make the .25-21 popular, and you will find published in old sports magazines of 25 years ago, accounts of interesting results he obtained with loads for it. The cartridge when properly loaded was very accurate.

Then, according to Mr. Roberts, the Marlin Arms Company brought out the .25-36 Marlin cartridge, in 1893, and the next year—as nearly as I can figure it out—the Winchester people changed the Marlin case a little, and announced the .25-35 Winchester, for use in their model 1894 rifle. Both of these cartridges proved to be very accurate, and were very popular.

I well remember the first .25-36 Marlin rifle I ever saw. It was back—too many years ago, in New Jersey, and what an appealing little rifle it was! Mr. Roberts recently told us in *THE RIFLEMAN* the fine results he had with one of these rifles years ago. And in the columns of old *Recreation* how they did scrap and squab-

(Continued on page 35)



Left to right: .25-20 Repeater; next five are regular .25-20 S. S. with various loads and bullets; seventh is .25-20 Donaldson; last two show relative thickness of metal in .25-20 S. S. case and .30-06 case

of either to reduce pressure or to increase velocity. From primer evidence, 17 grains of du Pont No. 1204 gives about the same pressure in this Donaldson case as 16 grains gives in the standard case, and possibly a little less. Our method of obtaining cases to fit is to fire the standard cases with reduced loads in the Donaldson chamber. Mr. Risley did a very nice job of chambering. Inasmuch as I have had several cases crack at the base of the neck, I am wondering if it would not be better if a less abrupt shoulder be given at this particular point. But this certainly makes a peach of a cartridge, and the loads that may be fired from it would surprise you. This Donaldson-type case is the shape that should be adopted in a commercial .25-20 S. S. high-velocity cartridge. Such a case will not fit old-type chambers, and as a result the risk of blowing up old rifles is disposed of. I feel sure that if this .25-20 Donaldson cartridge were given half a chance it would go over big.

In this day of Magnum this and Magnum that, and dreams of 5000-foot velocities, it is well to get back to earth for a few minutes, and realize that there is

# Decorating Guns

By T. R. JORDAN

**H**ERE is a simple little stunt which may be of interest to some of you amateur gunsmiths who like to tinker and decorate your guns.

First, don't try it on any heat-treated part, because if you do, the part will be ruined. It is best for decorating such parts as rifle floor plates and trigger guards. You can work out various designs to suit your own fancy if you don't care for the one shown.

The first thing to do is to etch the design on the floor plate—etch it with acid. I use strong nitric acid diluted with one-third water. You can use it without diluting if you prefer, but it is easier to control with the water added. I have tried covering the part with "etching ground," but I like plain beeswax much better. You can use your own ideas here, too. Hold the part over an open flame until the wax will flow freely, then move the piece around in such a way that the wax will be of the same depth all over the surface to be etched.

After it has cooled, draw on your design. I put a border around mine, about 3/16-inch from the edge, as shown in the sketch. Use a small pair of dividers for this purpose. Then draw your grass or ground at the bottom of the plate. Next your spruce tree in the center, then the little trees at each side, then the snow-covered mountain-top and the cliff, and finally the clouds. The clouds had me licked for a while. Not being much of an artist, I couldn't make them look right. Use a scratch awl or big needle, or some similar tool, to draw the design with.

Take a small stick and wrap a swab of cotton around the end of it, and with this apply the acid to the steel. Let the acid eat in deep. If you think the etching is deep enough, wash the part off under the faucet, and have a look at it. Don't touch any part of the design, and keep the acid off your skin. If the etching looks deep enough (about 1/32"), hold over the flame and wipe off with a clean cloth.

Next lay the part flat on a fire brick so that the heat won't warp it, smear flux all over the surface, and flow silver solder on, completely covering all the etching. Let it cool without dunking in water—which might warp it, and file off the excess of solder so that the design shows in all places; then polish with a piece of fine emery cloth wrapped around a flat file, until all the scratches have been removed. Finish up with crocus cloth, and reblue.

A simple and good blue to use is as follows: ten parts each of potassium nitrate and sodium nitrate, and one part

of manganese dioxide. You can get these at almost any drug store. A pound each of the nitrates is plenty. Put the works into a pound coffee can, put on the lid, and let it melt. To blue properly it should be at a temperature of about 750 degrees Fahrenheit. That is about what you will get on an ordinary gas stove. Hang the part to be blued on a piece of wire, and leave it in the bluing for about fifteen minutes. Then remove, and dunk in hot water to remove the nitrate, which would otherwise stick to it. Wipe dry, and smear with raw linseed oil. Before the linseed oil starts to gum up, wipe it off and cover with machine oil. Then she's finished.

There are other bluers that you can use, such as Formula No. 1 in Howe's *The Modern Gunsmith*, which is one of the best bluers I have used. U. S. Barrel Blue is also good.

When bluing, be sure the part is clean and free of oil, as the oil will cause the blue to be spotted and blotched. Also, if it is not blue enough after you have removed it from the nitre and dunked it, be absolutely sure that there is no water on it before you put it back into the nitre, because the water will cause the nitre to fly around and give nasty burns.



## IT MAY HELP

By F. R. KRAUSE

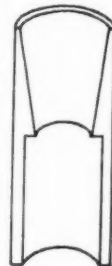
**E**VERY now and then I read of leading trouble that some of the revolver shooters have, and I believe that this trouble can be overcome in any revolver that is in good condition.

To get at the leading problem and find a cure, we will have first to discover the cause; and I believe that the cause is gas leakage. As soon as the powder begins to burn it exerts pressure in all directions, and expands the mouth of the shell about as fast as it starts to move the bullet. As soon as the pressure has expanded the shell, the hot gases flow past the bullet, melting the lubricant and even softening the bullet metal. This action continues until the bullet has completely entered the barrel.

Now, by putting an oversize cork wad about 1/8 inch thick back of the bullet, no matter how much the case expands the wad will hold all of the gas behind the bullet where it belongs. I have been using the Ideal No. 308241 cast plain-base bullet with up to 19.5 grains of duPont No. 80 powder in a .30-40 Krag, with no sign of leading; and if I did not hit what I shot at with this load, it was my fault. To keep the hot gases from melting the base of the bullet, I made a punch that would cut wads much larger than the outside of the neck of the cartridge case, and with this punch I cut wads out of 1/8-inch sheet cork, and inserted one in the mouth of each cartridge case after the case had been primed and had received its charge of powder. I then inserted the bullets in the regular way. I was careful not to seat the bullets so deep that the cork wads would get down with the powder.

With the gadget I made, which is illustrated herewith, one can put the wads into the mouths of the shells when they are in the loading block, at the rate of from 20 to 60 a minute.

I am going to try these cork wads in a revolver as soon as I can get around to it; and from my experience with their use in the .30-40 I am confident that they will do much to eliminate leading troubles in the short guns. In revolver and pistol loads the powder charge would of course have to be reduced.





# The Birth of An Idea

**A**WAY back in the days when a brown stone front indicated the home of a capitalist instead of a rooming house—when ladies wore petticoats and dandies sprouted whiskers—back in the days when really good shooting meant having a custom built gun, casting your own bullets, blending your own powder and ramming home your own carefully measured charges with just the same amount of elbow grease for each shot fired—back, as some wags would have it, “in the good old days” of 1871 some of the boys with bewhiskered chins but unfuzzed intellects thought deeply about the matter of improving their shooting.

“What to do about it?” “Well, if you want to improve your knowledge of literature you join the Literary Club. If you are a doctor and want to keep abreast of things you join the Medical Society. Now we are shooters, and we want to be better shooters. So, what is the answer? Why, join a rifle association!”

Simple enough—except for the fact that there was no rifle association! But these men were serious about the business. If all through the ages people had been able to improve themselves in their hobbies and professions through organization, why should not the shooter be able to improve his scores, his equipment, his social acquaintances through an organization devoted to shooters? And the result was—The National Rifle Association of America, chartered in 1871 as a non-profit membership corporation to make the shooter's life a happier one.

Things have moved far since 1871. Whiskers and petticoats alike have disappeared. Railroads have come from smoke stacks like the rose full blown to stream lined streaks of silver lightning. Black powder, cast bullets and ramrods have given way to superb accuracy packed into a trim copper or brass case no bigger than your little finger. The casual exchange of ideas between the little group of thirty-five riflemen sitting around the range house fire has been superseded by an organized, systematized compilation and distribution of information from the experiences of a quarter million rifle, pistol and shotgun shooters augmented by the Federal Government and industrial ballistic laboratories. The impromptu “rifle matches” of sixty-five years ago have become organized programs in 2900 civilian rifle and pistol clubs, from Alaska to the Canal Zone, and from Bangor to Hawaii. State Championships are second in importance to Regional Championships which in their turn serve as stepping stones to National Championships in which as many

as 3,500 lovers of the rifled tube fight it out for supremacy. Through contacts with the national shooting societies abroad each year one or more teams of American rifle or pistolmen match American arms and American skill against the best that our friends across the seas can produce.

While the Association still operates under its original charter, issued back in 1871 when the N. R. A. was just an idea, many changes have necessarily been made throughout the years both in policy and scope of activities. For example there are now nine separate classes of membership, each of which class occupies an important place in the Association's plan of organization. The summary that follows should therefore be of timely general interest to readers of THE RIFLEMAN.

## Types of Membership

### BENEFACTOR:

This type of membership is provided for the man or woman who wishes to make a substantial contribution to the work of making America—Once again a Nation of Riflemen, either by direct contribution or by bequest. Benefactors are entitled to all the privileges of membership, including the right to vote, during their lifetime. If too busy to take an active part in the Association's activities or if the contribution is in the nature of a bequest, the benefactor may nominate someone else to receive the benefits of membership. The two Clarke Memorial trophies annually competed for at the National Matches were purchased from the bequest of the late Captain Edward A. Clarke, U. S. Army, who was a benefactor.

### PATRON:

Another type of membership for the sportsman who desires to make a substantial contribution to the work. Patrons and members of their immediate families are entitled to the privileges of membership during the lifetime of the patron. The patron may vote. THE AMERICAN RIFLEMAN is sent to patrons without charge. Cost of membership \$500.00.

### ENDOWMENT:

Membership for life including the voting privilege for men or women who wish to make a real contribution to the furthering of the rifle-shooting spirit in America, but who are financially unable to become benefactors or patrons. Endowment members receive THE AMERICAN RIFLEMAN for life without charge. Cost, \$100.00.

### LIFE:

The most popular type of membership for the shooter of average means who wishes to take an active part in the affairs of the Association. This type membership carries all the privileges extended to members, including the right to vote and to be elected to office in the Association. THE AMERICAN RIFLEMAN is now being sent to Life Members without charge but in accordance with the recent action of the Executive Committee, applications for Life Membership are now being accepted without the guaranteed lifetime subscription. This does not, however, apply to Conditional Life Member contracts issued prior to November 1, 1937, provided such contracts are fulfilled within the contractual time limit of one year from date of issue. Life Membership dues are \$25.00.

### CONDITIONAL LIFE:

This is the popular installment plan for purchasing a life membership. The down payment is \$5.00 and the balance of \$20.00 is payable one year from date the Conditional Life Membership contract is issued. When the \$25.00 dues are paid within the specified time, the conditional contract becomes a paid up lifetime membership and the member receives his appropriate Life Member card and certificate. Conditional life members enjoy the benefits of annual membership and in the event a contract is not fulfilled the member receives full credit for all his payments by an appropriate extension of four months' annual membership for each \$1.00 paid, dating from the date his down payment was received.

### ANNUAL:

Carries the privileges of membership for one year from date of affiliation. Annual members do not have the right to vote or to be elected to an office in the Association, but they enjoy all the benefits including a year's subscription to THE AMERICAN RIFLEMAN. Annual dues are \$3.00,—\$5.00 for two years.

### ASSOCIATE:

Newest of the several types of membership, provided primarily for the wives of life and annual members. Associate membership is open to relatives of active members residing under the same roof. It carries all the privileges of annual membership for one year except a subscription to THE AMERICAN RIFLEMAN. Dues are \$2.00 the year.

### JUNIOR:

For boys and girls under 19—the children of U. S. citizens. Junior members have the privilege of competing in both junior and senior matches conducted by the Association and they may obtain free



bulletins and personal help information from the Technical Division the same as adult members. They may not purchase arms or ammunition from the War Department. They do not receive *THE AMERICAN RIFLEMAN*, but may subscribe to the magazine at the special junior member rate of \$1.50 the year. Junior membership costs 25¢ and expires with the calendar year.

#### HONORARY:

This class of membership has likewise been provided in recent years, to take care of citizens of nations other than the United States, who attend the National Matches or who because of their interest in *THE AMERICAN RIFLEMAN*, warrant recognition by the Association. The circulation of *THE RIFLEMAN* includes Sportsmen from all over the world, many of them outstanding citizens of their respective countries. Properly identified citizens of nations other than the United States, may receive Honorary membership in connection with a subscription to *THE RIFLEMAN*, without additional cost. Such membership does not, however, include the privilege of purchasing from the War Department. The cost is \$3.00 a year or \$5.00 for two years in the case of subscribers who reside in North or South America, including Central America. Elsewhere, \$3.60 for one year or \$6.50 for two years.

#### CLUB:

Club membership as the name implies covers group or unit affiliation. At the present time some twenty-nine hundred local clubs are operating under the N. R. A. Club Charter plan. The club as a unit enjoys certain definite benefits but individual club members have no direct affiliation with the N. R. A. They are, however, eligible for individual membership or they may subscribe to *THE AMERICAN RIFLEMAN* at the special rate of \$1.50 per year, the same as Junior members. The annual club dues are \$10.00 for senior clubs, \$5.00 for junior clubs and \$15.00 for State Associations.

#### PROTEST RULED ON

**T**HE protest filed with the Cuban sponsors of the 1937 Havana Pistol Matches has been ruled on, and we find that Lloyd Ferril, Kansas City Police Team, is the Olympic Speed Match winner. The protest will be remembered as concerning the legality of loading more than six cartridges for each string. According to the International Shooting Union Rules this procedure is not allowed.

Besides winning this event, Ferril made the remarkable score of six hits in two seconds.

## Our N. R. A. Juniors

**T**HE Junior Bi-Weekly Team Matches opening October 23 with a total of 153 teams as compared to 112 last year is indicative of the increase of junior N. R. A. activities throughout the year soon to close. The interest which the juniors are showing in this field of sport is worthy of much more attention than they seem to receive in the accounts of tournaments, and even Camp Perry itself. No more interesting spot along Camp Perry's entire two mile firing line could be found than the junior instruction area in the first week of the National Matches. While the oldsters are receiving the do's and don'ts of the small arms firing school, these kids are combining marksmanship fundamentals with red hot competition for national junior honors and trophies.

So here goes a tribute to these young sharpshooters among us in the form of a resume of some important N. R. A. junior activities.

Outstanding in last spring's competition was the hotly contested finish of the bi-weekly series of 1936-'37 where a team from Munhall High School in Pennsylvania fought a see-saw battle with a team from Stadium High School in Tacoma, Wash.; these teams being separated widely as to geography but holding to the narrowest margin of points in their rifle marksmanship. The Munhall Girls' Team managed a victory in the final round of firing to clinch the title for this series. This group also won the N. R. A. Junior Team Championship.

National champion team members include Mae Markey, Dorothy Braddock, Martha Lloyd, K. Grossett who all fired possibles and Joan Schumann who dropped only a point. Runners-up on the Stadium High squad show Roland Koehler, Verne Koehler, Jim Buren with possibles and Harold Davis with a 199 and George Barker with a 198—and that's some shooting for any age of riflemen.

Now this year again with the bi-weeklies showing an enrollment of 153 teams, representing 111 clubs from 29 states, they are settling down to another season of hard-holding. And a second series to open in January will undoubtedly follow last year's lead by more than a thirty percent increase over the first series. In the first returns to date the Munhall shooters have started off with a possible team score of 500 and again the Stadium High School boys are challenging the champions with a 499 team return.

Hilary Brown, of Louisville, Ky., held to his title of outstanding junior for 1936 by taking the Individual Scholastic Championship in the gallery shooting over a

field of 329 entries. His possible and 81 bulls led August Westergaard, of Whiting, Iowa, who fought out a perfect score tie with Brown and Mae Markey, of Munhall, Pa.,—Mae finishing in third position to take consolation prize over one of the rival team members, Verne Koehler, of Tacoma, Wash.

Probably one of the most extensive junior programs and yet one of the least publicized is the summer camp match and qualification shooting. While the older riflemen are engaged in a fight for tournament money and trophies and incidental national rankings in hundreds of local, regional and national tournaments, the juniors are enjoying rifle shooting under the most favorable circumstances as part of a summer camp schedule of sports. But perhaps you are not acquainted with this program—so, briefly, here it is. During the camp season 448 private and institutional boy and girl camps were affiliated with the N. R. A. and conducted an N. R. A. junior program of rifle marksmanship instruction and qualification firing. This was an increase of forty-six camps over a year ago. Throughout the season approximately 25,000 qualification decorations were issued.

Team matches are a part of the summer camp schedule and these are conducted in two sections, boys and girls. In each section there are two divisions. The senior division consists of campers fifteen through eighteen years of age and the junior division under fifteen years of age. In the senior division of the boys' section there were 118 team entries. Camp Lincoln, of Lake Hubert, Minn., produced the national leaders, having turned in a score of 496 x 500. Camp Vermilion, of Cook, Minn., came second with 495, followed by Camp Hawaya, of Harrison, Maine, with 493.

In the junior division of the boys' section 136 teams entered and this match was taken by Camp Menatoma, of Kents Hill, Maine, with a score of 492. Camp Lincoln came second with a 487 and Camp Kennebec, of North Belgrade, Maine, third with a 471.

In the girls' section, senior division, there were twenty-eight team entries, with Camp Alleghany, of Greenbrier County, W. Va., taking top honors with a score of 489. The first and second teams at Lake Hubert (Minn.) Camp placed second and third with scores of 480 and 497, respectively. In the junior girls' division Lake Hubert Camp came on top with a 486, followed by Camp Alleghany's two teams with scores of 477 and 474, respectively.

Incidentally, all teams fired the identical course. This is a prone match, ten shots for record per competitor, ten man teams, five high scores to count.

In another program of junior competition in which the N. R. A. cooperates very closely with the Open Road for Boys Magazine, over 6,500 sets of targets were sent out from this office on which another group of sharpshooters were to unleash some pent up David Crockett marksman-ship.

Then on to Camp Perry which more or less sums up the summer's shooting. Here's the official report.

The Junior School of Instruction at Camp Perry was conducted in conjunction with the Small Arms Training School. However, in addition to the schedule of instruction a series of individual daily matches were fired. Junior members and members of affiliated N. R. A. clubs twelve years of age and older were eligible for this school. The school was conducted in two groups, Group A consisting of those fifteen through eighteen and Group B twelve through fourteen.

The opening day was devoted to organization and instruction. Additional instruction was given in periods throughout the week. A prone 20 shot match was fired for each group on the second day and in the A Group Norman Sawyer, of Queens Village, N. Y., won the silver medal, turning in a possible on his first string and a 199 in the shoot-off. Richard Johnson of Plainfield, N. J., who had tied Sawyer with a score of 200 turned in a 191 in the shoot-off, thereby placing second for the bronze medal. Russell Hartranft, of South Orange, N. J., came third with a 198 for a bronze medal. Robert Carper, of Toledo, Ohio, was high man in the B Group with a score of 195. Edward Osborne, of Canfield, Ohio, was second with 194 and Severn Brown of Evanston, Ill., third with 193.

The prone-sitting match fired on the third day in camp was also a twenty shot event, with ten shots prone and ten sitting. In the A Group the three high placed as follows: Helen Jenkins of Columbus, Ohio, 197, Roger Hughes of Youngstown, Ohio 197, Francis Chidsey, of Wayne, Pa., 193; Group B, Clarence Roadifer of Newcastle, Wyo., 182, Wistar Haupt of Highland Park, Ill., 180, Robert Wessels of Bloomington, Ind., 179.

\* The fourth day a three position prone, sitting, kneeling match was fired for both groups and again the possible was 300 with each competitor firing ten shots prone, ten sitting and ten kneeling. The three high places in each group in this event were as follows: Norman Sawyer 287, Helen Jenkins 287, Russell Hartranft 285; Group B, Edward Osborne 272, Leonor Travis of La Grange, Ill., 262, Betty Moore of El Paso, Tex., 261.

The next match was a four position event with ten shots prone, ten sitting, ten kneeling and ten standing. The results in each group were as follows: Roger Hughes 372, Robert Beachler of Columbus, Ohio, 363, Roy Bryant of Springfield, L. I., N. Y., 356; Group B, Edward Osborne 343, Robert Lausten, of Port Clinton, Ohio, 336, Clarence Roadifer, 328.

The three high places in each group in each daily match received silver medals for first place and bronze medals for second and third places. In addition, the individuals in each group having the highest aggregate for the four matches received the Whistler Boy Trophies and a silver medal. Bronze medals were awarded second through fifth places. These trophies were presented by Mr. Grover A. Hughes of Youngstown, Ohio in 1931. The first year the two trophies were in competition his two sons won them. Robert won the Group A trophy and Roger the Group B trophy. This year Roger won the Group A trophy, his name therefore is now engraved on both trophies. His aggregate score was 1048 out of an 1100 possible. Norman Sawyer placed second with 1036, Helen Jenkins third with 1035, Robert Beachler fourth with 1031 and James Harker of Webster Groves, Mo., fifth with 1025. In the B Group Edward Osborne took the Whistler Trophy with a score of 974. In second place Clarence Roadifer fired a 946, third, Robert Lausten 942, fourth, Robert Wessels 929 and fifth, William Mowat of Buffalo, N. Y., 923.

The Individual Junior Championship Match, which was an open event, was fired on the closing day of the school. Any junior member and member of an affiliated club under nineteen years of age was eligible to participate. This again was a four position match, ten shots in each. The championship with the trophy which in this case was a set of bookends, and the gold medal went to Roger Hughes of Youngstown, Ohio with a score of 372. Jack Polk of Troy, N. Y., won the silver medal with a score of 363 and bronze medals were issued to the following: Robert Beachler 363, Robert Latta of Maplewood, N. J. 359, Roy Bryant 356. Norman Sawyer 356, Griffith Bedworth 356, James Harker, 356, Francis Chidsey 354 and Helen Jenkins 353.

#### FLORIDA VACATIONERS INVITED

THE members of the Miami Rifle and Revolver Club, of Miami, Fla., wish to extend a cordial invitation to all shooters coming south for the winter to come out and use the club range which is located a short distance from town and has accommodations for pistol, small bore rifle, .30 caliber and also skeet.

#### U. S. WINS R. W. S. AND RAILWAY-MEN'S INTERNATIONAL-CANADIANS PLACE SECOND IN INTERNATIONAL DEWAR

A LETTER from G. Pethard, Secretary of the Society of Miniature Rifle Clubs, dated October 27, and giving the official results for the International Postal Matches for 1937, show the Americans firmly entrenched in first place in the R. W. S. Trophy Match with a substantial lead of thirty-three points over Great Britain and leading the third place German team by forty points. The Railwaymen's International Match results give the United States another international victory by virtue of an eleven point lead with a score of 7796 to Great Britain's 7785 and Canada's 7776. The Canadian International Dewar team pulled a surprise by outshooting their American neighbors by a comfortable twenty points to place second to Great Britain's fine score of 7896.

Scores are as follows:

Dewar International Match	
Great Britain	7896
Canada	7877
United States	7857
New Zealand	7719
South Africa	7623
R. W. S. Trophy Match	
United States	3963
Great Britain	3930
Germany	3923
Railwaymen's International Match	
United States	7796
Great Britain	7785
Canada	7776

#### BRITISH RIFLEMEN START FUND FOR RETURN VISIT

THE Society of Miniature Rifle Clubs has already started a campaign to raise funds for the contemplated return visit of a British small bore team for the next Pershing Trophy competition. The necessary sum of fifteen hundred pounds is illustrated by a goal device in the British magazine for October which shows a total of two hundred and seventy pounds already on hand as a splendid start.

It is most gratifying to see the serious effort now being made by the British to make possible the continuation of this Pershing competition. It illustrates the friendly relations existing between our own group and that of the sportsmen across the pond, greatly enriched because of the sportsmanship and conduct of members of our team in their visit this year.

Commenting on this second visit of ours and the fact that the British again won by a narrow margin of two points the British Rifleman goes on to say that "this result, however, comparatively speaking, was of minor importance compared to the fact that the friendliest relations existed

between our American friends and ourselves throughout the visit."

And so it appears that with this serious effort on the part of the British now under way, we should start tightening our belts and slings and make every possible preparation to cop that Trophy and hold it here when once it is brought over.

#### NATIONAL MUZZLE-LOADING MATCHES

**N**OTES on the National Muzzle-Loading Matches held at Dillsboro, Ind., October 8, 9 and 10: New muzzle-loading rifles brought to the matches by A. O. Neidner, Bob Point, Charles Burns, L. M. Wolfe—made by themselves—and the performance was most commendable. This phase of the movement is a natural result, following the quest for accurate rifles.

The gathering place was Dillsboro Health Resort, where a most profitable and comfortable period was spent. Such hospitality has not been possible in previous matches. The Resort has extended an invitation to return in 1938. Vevay, Ind., has also asked the riflemen to shoot on their ranges next year.

All officers were reelected for another year. Inclement weather ruined one day's shooting but the final day was super-super and the fans made the most of it.

The 12<sup>3</sup>/<sub>4</sub> inch, 10 shot string measure group by Walter Grote was outstanding, since the best previous string measure was slightly over 18 inches. The rifle he used was a Brockway, made famous in earlier days by Fletcher. (The rifle has had much publicity in *THE AMERICAN RIFLEMAN* in the past few years.)

The Johnsons—Jess and Stanley, father and son—as usual took a fine share of the big prizes.

E. M. "Red" Farris won the nice purse in the Bone Head match, where a blank card faces the shooter and the bullseye (or whatever it was) was hidden on the opposite side.

Mr. and Mrs. Ernest Williamson proved that a husband-wife combination could be developed to a point where the winnings were impressive. Ernest is one who assembles a gun from parts gathered from all directions—and secures excellent accuracy.—E. M. FARRIS.

#### PROPOSED NEW PISTOL TARGET

**D**URING the next two or three months we wish to have as many clubs as possible fire on the proposed new gallery slow-fire pistol target.

This proposed target is identical with the present Standard American one, except that the bullseye includes the seven ring, as well as the eight, nine, and ten rings as at present. Theoretically this should have several advantages. Eye strain should be reduced; "fading out"

should be eliminated to some extent, particularly for shooters whose eyes have started losing their power of accommodation. The close similarity in size of bullseyes on the proposed slow-fire target when used in combination with the old rapid-fire one should prove a benefit when firing the three stage matches. The proposed large bullseye is within .03 inch of the old rapid-fire bullseye in diameter, so this combination would make it possible to take a six o'clock hold throughout a three stage match.

The test targets are all for the 50-foot range, but no club which regularly fires the 20-yard course need hesitate to use them for fear of having to make sight changes. From actual firing tests it has been found that the same sight adjustment required for the present 20-yard slow-fire target is correct for the proposed large bullseye 50-foot target.

Any club interested in trying the large bullseye may do so by requesting samples from the National Rifle Association, 816 Barr Building, Washington, D. C.

#### HONORABLE MENTION FROM THE NEWS DESK

—to Les Cline of San Antonio, that veteran of Texas pistol shooters, for his splendid outline of NRA membership advantages in a letter accompanying the bulletin of the Texas State Pistol Matches sent to all competitors.

—to R. C. Wilson of the Grover Cleveland High School of St. Louis, Mo., who through his enthusiasm and promotion of junior rifle shooting, was largely responsible for the issuing of over thirteen hundred qualification awards to juniors attending a Minnesota summer camp where he was instructor.

—to Paul W. Kearney, well known journalist of New York City, for his seasonal safety warning to hunters which appeared in the *Family Circle* magazine for October, in which he outlines the NRA Sportsman's Code and points out the safety record of the NRA in training nearly a quarter-million high school boys and girls without a single accident.

—to the editors of the *American Builder* for their article in the September magazine suggesting the construction of a rifle range in the basement of the modern home as part of the recreational set-up.

—to Clayton D. Teter of Hudson, N. Y., for his work in connection with the Columbia County Federation of Sportsmen's Clubs to provide local editors and officials with facts regarding the opposition of firearms legislation.

#### ARMY RIFLEMAN HONORED AT MILITARY CEREMONY

**I**T IS a source of real satisfaction to those who have been interested in promoting small arms marksmanship within the service groups to note the recognition given an outstanding marksman, Captain James Henry Marsh, 18th Infantry, U. S. Army. Captain Marsh received the highest honor for rifle shooting in the gift of the War Department when at Fort Hamilton, N. Y., Brigadier General P. L. Miles, Commanding General of the 1st Division, pinned on him the medal of distinguished marksman. Presentation of the award followed elaborate military ceremonies marking the retirement of General Miles.

Captain Marsh set a new world's record with the pistol in 1928 when he scored 99% percent. He holds the distinguished pistol shot designation and is a gold medalist with the automatic rifle. He qualified for distinguished marksman during the National Matches at Camp Perry, Ohio, this year by placing as a medalist for the third year.

#### J. Clayton Parks

**J.** CLAYTON PARKS, of Sidney, J. Nebr., was killed in an accident October 7. He had been actively associated with the Sidney Rifle Club since 1921, and was chosen as a member of the Nebraska civilian team the last two years. At the time of his death he was serving as president of the local club. As a member of the American Legion, he was extremely active in all phases of Legion work and was recently retired as commander. One of his last jobs for this group was the compiling and publishing of a book of by-laws and constitution for the Legion and its auxiliary.

#### NOTICE FROM THE D. C. M.

**T**HE Commanding Officer, Springfield Armory, Springfield, Massachusetts, has notified this office that the supply of barrels, assembly, National Match, caliber .30, is entirely exhausted. Additional barrels, caliber .30, National Match, are under manufacture. The new supply is scheduled to become available about April, 1938.

The barrel, assembly, caliber .30, service, listed in DCMO Price List at \$6.77 plus packing charge, is available for sale on orders approved by the Director of Civilian Marksmanship. This is not a star-gauged barrel and cannot be star gauged. It is the straight service barrel.

There is a supply of barrels and receivers, assembly, National Match, caliber .30, available which may be sold on orders approved by the Director of Civilian Marksmanship, at \$17.24 each plus the usual packing charge.—R. H. LORD, Major, Infantry, Assistant.



## "HANDLOADER'S MANUAL"

By EARL NARAMORE

*Small Arms Technical Publishing Company, \$3.50.*

**T**HIS book is the greatest thing of its kind we have ever seen. Fresh from reading it, we still don't know how Earl Naramore succeeded in doing what he has done. He has written into a manual 7¾ inches high, 4¾ inches wide, and 1 inch thick not only the whole story, detail, and technique of handloading ammunition, but he has also told the whole story, insofar as the shooter needs to know it, of gunpowder, primers, brass cases, bullets, interior and exterior ballistics, etc.; and there isn't a dry word or a high-hat technical phrase in the whole darned thing. There are 369 pages that read as easily as your favorite novel, even when Naramore discusses how brass crystals hop around in an annealing furnace, and why their hopping around affects the well being of the handloader. Indeed, the value of this book lies not merely in its completeness, but even more in its understandability. Departing from the time-worn trail that has been followed by previous writers on this subject, Naramore does not give any drill-master formulae for doing this and that. He describes not a single reloading tool. He lists not a single "recommended load." Rather, he tells, in words of one syllable, *what* goes into good ammunition, *why* it is necessary, and *how* to put it there with *any* set of tools.

There is information, up to the minute, on the handling of non-corrosive primers. There is a long chapter on powders—how they are made, why they are made that way, and how to use each type intelligently. A feature of this chapter is a page of eight succinct and often-overlooked reasons for the development of unexpectedly high pressures.

His chapter on bullets is so complete that many a shooter who never expects to reload will find food for reflection—and comfort—in the easy reading and illuminating comment. A paragraph on attempts to swage down metal-cased bullets will give a new thought to many experimenters.

The chapters devoted especially to the problems of reloading for revolvers and automatic-pistols will be received with whoops of joy by the rapidly increasing clan of handgun reloaders. Here, as throughout the manual, the reader also picks up bits of worthwhile advice and information about the construction of the *guns* as well as the cartridges.

Careful pen-and-ink sketches by Col. Julian Hatcher supplement the plentiful half-tone cuts, and bring out in picture and chart form the points made by the text. Colonel Hatcher's series of drawings showing what goes on inside the

chamber of a rifle from the time the firing pin strikes the primer until the bullet is on its way to the target are the most graphic explanation of the reason for blown-up cases that we have ever seen.

Taken by and large, this is a book that every shooter—whether a reloader or not—will profit by reading. We do not know how many copies are being printed, but we venture the prediction that the first edition will be exhausted so quickly that those who are slow about ordering will have to wait until a second edition can be made available. Only once in a great while is published a shooter's book which is so crammed full of invaluable data written in so clear and entertaining a manner.—C. B. LISTER.

## "AN AMERICAN HUNTER"

By ARCHIBALD RUTLEDGE

*Frederick A. Stokes Co., New York, \$4.00*

**H**ERE is a book that from the angle of book-making is the finest job we have seen in years. Beautifully and ruggedly bound, splendidly printed—paper, type face, margins and decorations all blend perfectly into a *man's* book. Lynn Bogue Hunt has done some excellent drawings for chapter headings and tail-pieces—and Lynn Bogue Hunt knows the American out-of-doors as the hunter sees it.

The author is Head of the English Department at Mercersburg Academy. He is poet laureate of South Carolina. In 1930 he received the John Burroughs Medal for "the best nature writing in America." He unquestionably knows his guns, his game, his woods-lore and his upland game. His chapter on "Why I Taught My Boys to be Hunters" is a text to which every reader of *THE AMERICAN RIFLEMAN* will say "Amen." His chapter on "Babes In the Wild Woods" is the sort of discussion of city tyros in the hunting field that we would all like to write but none of us could equal.

But somehow it isn't the easy-going, friendly, man-to-man "now-I'll-tell-you-one" kind of hunter's book that we like to read. It is a collection of short stories—unrelated chapters in the forty years' hunting experience of Mr. Rutledge—and the first several chapters were obviously written long ago in the diction that prevailed along with button shoes, canvas leggings, and grandiloquent reference to a white-tailed buck as a "stag." As the chapters progress into those obviously written more recently, the book becomes much easier to enjoy. Had the publishers left entirely out the first 69 pages—started off with the fine chapter "What Scares Game" and permitted the *present* Archibald Rutledge to tell his story, they would have had a more popular book with the *present* gen-

eration of shooters. But you can skip the first 69 pages and still have left 392 pages of carefully written, non-technical hunting stories and lore of the Virginia White Tail, the wild turkey, quail, grouse, bird dogs and houn' dogs, negro plantation hands, misty mornings and murky sunsets from southern Pennsylvania to South Carolina.

Younger men will, we think, not like the careful style which beclouds action with description. Older hunters will spend several quiet, chuckling hours re-living with Archibald Rutledge the scenes and incidents which he recalls.

A fine Christmas gift book for the older generation. Available from N. R. A. Book Department. \$4, postpaid.—C. B. LISTER.

## David H. Smith

**T**HE Coffeyville Rifle and Pistol Club, of Coffeyville, Kans., has lost its organizer and promoter with the death of David H. Smith, who passed away September 29 following an operation at the Halstead, Kansas, Hospital.

Dave organized the local club in 1923 and was instrumental in its affiliation with the N. R. A. the following year. He helped to organize clubs in neighboring towns and started indoor and outdoor leagues in the territory. He also organized junior clubs each winter, for years spending one night each week with each club. His enthusiasm for rifle and pistol shooting never waned during his fourteen years' residence in Coffeyville. His passing is a great loss not only to the local clubs but to the shooting fraternity at large who found in him a true friend and sportsman.

## Walter W. Hubbard

**S**HOOTERS who have ever visited Roberts Island and "the game" itself will miss "Walt" Hubbard. There will be but few secretaries the equal of Walter W. Hubbard, of Stockton, Calif., who has just passed away.

Serving the Roberts Island Rifle Club during its most active years, he figured largely in gaining for that organization a reputation throughout the nation. His zeal extended to furnishing files and records for the club and it was largely due to his efforts that the Turkey Shoots and matches at Stockton came to be recognized as outstanding Western institutions. Target shooting supplied for him needed recreation from the stress of business affairs. The club was to him on a parity with a lodge; the sportsmanship connected with it, like unto a religion. Yes, the game will surely miss "Walt" Hubbard.

**THE AMERICAN RIFLEMAN**



# Through the Scope

**OHIO—The Summit County Pistol League of Akron, Ohio,** held its first annual outdoor pistol tournament at Old Forge Range on October 2 and 3. The weatherman was good so far as the rain was concerned, but the wind—"she blew!" Two hundred and twenty-nine entries by sixty-five competitors furnished plenty of action and the league's fine outdoor range of twelve firing points was kept busy throughout the two days of shooting.

R. J. Dunbar won the trophy in the .22 caliber slow fire match with a score of 174x200 in spite of tricky light conditions. In match No. 2, .22 caliber timed fire, C. E. Schetter won the trophy with 190x200, followed closely by H. T. Englert, of Oil City, Pa., second, and W. F. Woods, Akron, third.

In the .22 caliber National Match course, N. L. Hubbard, of Akron, won with a neat 273 shot in a strong puffy wind. In the latter match, as well as the large caliber National Match course and the .45 automatic match, all competitors who made qualifying scores received sterling qualification buttons regardless of other ranking. Thus, practically every shooter received a worthwhile memento of the shoot.

Saturday's list of winners made it look like "Akron Day," but that was soon changed. Apparently the light rain which fell early Sunday morning drove the shooters out of the Pennsylvania hills, up from along the Ohio River, and down from the shores of Lake Erie. "Wrecking crews" were reinforced, but still couldn't beat out A. D. Beers in the .38 slow fire match with 174x200.

The weather cleared nicely for the two-man team match in which M. R. Simon teamed up with L. L. Field to win duplicate trophies with a score of 561x600 over the popular Camp Perry course. They were followed by E. U. Stephens and J. Benson, of Pittsburgh, second, and W. A. Steele and P. Simon, of Beaver Falls, third. Match No. 7 was the large caliber National Match course in which Stephens proceeded to win the trophy with 273x300. D. S. Benson was second and Field third.

The .45 caliber automatic pistol event over the Camp Perry course proved quite a surprise and Hubbard won its trophy against a field of twenty-two competitors with 262x300. Schetter was second and C. J. Code, of Crafton, Pa., third.

The aggregate match, consisting of the slow fire and National Match course in both small and large calibers, was won by D. S. Benson with a score of 865x1000. Field was second and Englert third. Thus ended our first "big little shoot." Many new friends made and everyone just as happy as though new records had been made.—W. H. JACOBS.

**ILLINOIS-IOWA—The Illowa Rifle League** opened its competitive firing in the start of a twelve weeks grind with twenty Eastern Iowa and Western Illinois rifle clubs taking to the mats.

An estimated 200 to 250 men will be found on the firing lines at the eight official indoor ranges in shoulder-to-shoulder competition. As many men as desire in each of the twenty clubs may shoot with the high five scores going for record and in this method it gives everybody a chance to make the high five. All firing is individual, including the clubs whose twelve high five scores are aggregated for final standings. The individuals are required to fire in at least eight of the scheduled matches, the totals providing the basis for

classification bar awards. All competitors receive a basic medal after their first series of matches to which may be attached the bars awarded for grades made in the future indoor schedules. The same arrangements are followed for the pistol events.

This season the Davenport High School and the Bloomfield clubs are firing for the first time. Their members who fire in eight matches out of the twelve scheduled will receive a basic medal together with a bar in accordance to the grade they attain.

Encouragement is given all the team members to travel from one range to another during the season. There are no dues to pay within the league. The big events are the banquets held twice a year, spring and fall, at which time the awards are issued. These banquets are held at the Hawcock Cafe at Monmouth, Ill., and those who are acquainted with Emory Hawcock may easily know what a wonderful time is had on these occasions. The fall banquet was held November 14.—J. G. JOHNSTON.

## PENNSYLVANIA — The Philadelphia Marksman's Pistol and Revolver League.

—League honors for 1937 were clinched by the Wilmington Pistol Team in an exciting shoot-off on the grounds of the Holmesburg Fish and Game Protective Association at Holmesburg, Pa., October 17. The Wilmington team established a new league team record with a total of 1320 x 1500 for a five-man team over the National Match course.

The Philadelphia Marksman's Pistol and Revolver League is composed of the leading civilian handgun teams in Southeastern Pennsylvania and in Delaware: the Philadelphia Rifle Association, the Frankford Arsenal Rifle Club, the Atlantic Refining Rifle Club, the Holmesburg Fish and Game Protective Association, the Marksman Club of Wilmington and the winning organization, the Wilmington Rifle and Pistol Club. One match was fired on the home grounds of each team in the league, the home club in each instance acting as host and not shooting. No sighting practice, preliminary shooting or sighting shots were permitted anyone in the league shoots.

The outstanding feature of the league shooting, outside of that of H. V. Noble, was the shoulder-to-shoulder match ability of the feminine members of the Wilmington club, some of whom not only made their own first team with monotonous regularity, but also usually outshot the other league men as well; food for thought for those who may sometimes wonder whether it is worth bothering with the development of feminine pistol and revolver shots. C. S. Landis, team captain, recently remarked, "It is no longer a question of whether the women can make our teams, it is now a question of how many of our men can make it."

Team totals of the high three teams in the final shoot-off follow: Wilmington Rifle and Pistol Club, 1320; Philadelphia Rifle Association No. 1 Team, 1301, and Marksman Club of Wilmington, 1223.

**FLORIDA—Marymont Range, Clearwater, Fla.,** was the meeting place, Sunday, October 17, of the riflemen representing leading Florida cities, who attended the second annual West Coast small bore matches directed by the Florida State Rifle Association.

N. R. Cocking, of St. Petersburg, copped

top honors in the day's first, the 50 meter go-round, scoring 198. In the individual Dewar following, Ed Smith, of Winter Haven, topped the field with a 395, one point below A. F. Wright's 1936 score.

The third match, long range individual 200 yard any sight event, won last year by Marshall Johnston, of St. Petersburg, with a score of 195, was taken this year by Wright, of Clearwater Rifle Club, with a 189.

Cocking won the title in the West Coast championship, match No. 4, an aggregate of matches 1, 2 and 3. Besides winning the championship honors Cocking received the trophy presented by the Clearwater Chamber of Commerce, a gold medal and a cash prize. Just to bluff the weather man, a Swiss match was fired as an added attraction and was won by Vic Wehle, of the Sunshine Club, scoring 32. Thirteen rounds finished McCready's efforts. Smith called it a day with nine.

## MISSOURI—The Seventh Annual Southwest Missouri Matches, sponsored by the Monett Rifle and Revolver Club, Inc., got under way on schedule, October 16, despite the unfavorable weather conditions which were general over the states of Missouri, Arkansas, Oklahoma and Kansas. Although the attendance was cut fifty per cent at least, more than thirty out-of-town competitors were present, most of them having driven through the rain to attend.

All places in the small bore aggregate went to Monett shooters—P. Josseland taking first, 590 x 600, outranking Paul Holland with whom he tied; third place going to C. E. Roderick, 588, while Mrs. P. Josseland, who won the aggregate in 1936, was in fourth place with 587 x 600.

An outstanding performance was turned in by Holland with the small bore rifle, who, in addition to tying for the aggregate, won the individual Dewar with 398; the short range individual with 399, and ran 100 bulls in the Swiss match to take first place, quitting without having fallen out, the 9 and 10 rings of the 200 yard small bore decimal target being used as the "bull."

In the small bore two-man team match (20 shots at 100 yards) E. K. Smithley and Paul Brady, of Miami, Okla., took first place with a score of 395 x 400.

Only three points separated the three four-man teams, the two Monett teams taking first and second places with 1572 and 1570, while Miami, Okla., was in third place with 1569 x 1600 over the Dewar.

T. J. Sharpe, who cleaned up the Oklahoma state pistol matches at Okmulgee, October 2 and 3, was the star performer with the .30 caliber rifle and pistol. Sharpe's 98 x 100 was good for first place in the high powered individual match. He was also first in the high powered aggregate with 277 x 300, while he and Bill Foster, also of Norman, Okla., won the high powered two-man team match with 348 x 400. Sharpe won both the .22 caliber and center fire three-stage championships, scores 286 and 285 x 300 over the police course, and the center fire reentry with 96 x 100. Other winners in the high powered and pistol were M. H. Cruise, Monett, .22 slow fire with 195 x 200; J. H. Timmons, Trenton, Mo., center fire slow-fire, 193 x 200.

In a novelty match, conducted annually and known as the "Scotch Cup," course: five shots for group at 100 yards, groups measured center to center; any rifle, any sights, any ammunition, any form of rest except machine rest, first place went to the originator of the match and donor of the Scotch Cup, Jack Rogers, of Neosho, Mo., with a 74" group. Jack has been trying to win the cup ever since he put it up.

**IOWA—The Fifth Annual North Iowa Small Bore Tournament**, which is sponsored annually by the Cerro Gordo Rifle Club, Inc., Mason City, Iowa, was held on Sunday, October 3. As was the case last year the shoot was confined to pistol and revolver events only and this year for the first time the event was registered by the National Rifle Association. The day was a perfect, clear, warm, fall day with no wind, making shooting conditions perfect.

About forty competitors fired the program of ten registered matches and four non-registered matches with Sgt. L. E. Allstot, of the Mason City Police, and Supervisor D. A. Thimmesch, of the Iowa Highway Patrol, winning most of the events. Allstot won eleven firsts and three seconds and Thimmesch took two firsts, eight seconds and three thirds. Allstot broke five shoot records, tied two records and established four during the day.

Another feature of the shoot was the winning of the Class B medal in the caliber .22 timed fire match by twelve-year-old Bob McQueen, son of I. G. McQueen, of Ridge-way, Iowa, one of the ranking pistol shots in the state.

Winning scores for the .22 caliber registered events show a 190 fired by Allstot for the slow fire, a 196 by Thimmesch for the timed fire, a 191 by Thimmesch for the rapid fire and a 288 by Allstot over the National Match course.

In the center fire events Allstot shot a 185 in the slow fire match for first, a 194 in timed fire and a 184 in rapid fire, taking the center fire individual over the National Match course also with a 279.

**HAWAII—The First Annual Hawaii Double Ten Pistol Tournament**, held on October 3 and 10, was a factual answer to a long felt local need, and that is an annual all-around individual pistol championship tournament to determine the relative ranking of the many handgun artists in Hawaii.

Managed by Sgt. D. T. W. Yap, secretary of the Honolulu Police Rifle and Pistol Club, and generally supported by local Chinese business men who donated seven trophies for seven of the ten matches, this tournament turned out to be a success. Thirty-three individuals and nine teams competed for honors.

The all-around individual pistol champion of this tournament was Ralph W. Miller, secretary of the Oahu Rifle and Pistol Club who turned in an aggregate score of 1332 x 1500 in six individual matches involving the use of .22 caliber, .38 caliber and .45 caliber handguns. By winning five first places and one close third out of six matches, he automatically walked away with the aggregate match, and for this performance he was awarded six gold medals, one bronze medal and four trophies; Yuen Poy Trophy for the .22 caliber championship, Arrow Hardware Trophy for the .38 caliber championship, Supervisor David Y. K. Akana Trophy for the .45 caliber championship and the Hawaii Double Ten All-Around Perpetual Championship Trophy presented jointly by Service Cold Storage Co., Ltd., and Kim Chow Shoes.

Theodore Awana, of the Honolulu Police, won the remaining championship match, .38 caliber timed fire match, with a score of 185.

In team matches the Oahu Rifle and Pistol Club Team No. 1 won two out of three matches to take the National Clothing Trophy and the C. Q. Yee Hop & Co., Ltd., Trophy. The first match was a .38 caliber four-man team championship over the Camp Perry police course and the second match was a .45 caliber four-man team championship over the National pistol match course.

The Honolulu Police Team No. 1 won the

.22 caliber four-man team championship over the National pistol match course with a score of 1071 and was awarded the Leong Boo Credit Jeweler Trophy.—(Honolulu Advertiser.)

**OHIO—The Indian Hill Rangers' Metropolitan Open**, the final outdoor shoot of the 1937 season, was held Sunday, October 17, on the Rangers' range east of Cincinnati, Ohio.

Bad weather for a day or two preceding the match cut down the out of town attendance, but a field of approximately sixty pistol enthusiasts took part in the all day program of events. The card was made up of six individual events with the title of Metropolitan Open Champion going to the entrant with the high total aggregate score fired in all matches.

The Rangers won ten of the eighteen awards in the six events, with Ranger William Lux repeating his 1936 performance to retain the Metropolitan Open Championship for the second year. Seven awards went to members of the Cincinnati Revolver Club and one to the Legion Pistol and Rifle Club, Chillicothe, Ohio.

In the .22 caliber events Phil Butler, of the Legion club, took the slow fire match with a 187; Duke Williamson, of the Cincinnati club, the timed fire with a 191, and E. N. Konrad, of the Indian Hill Rangers, the match over the national course with a 272. In the center fire events Lux lead the field over the national match course with a 278 and also fired a 179 for first place in the slow fire match and a 197 in the timed fire match.—R. M. FLEMING.

**KANSAS—State Vigilante Matches.**—Four crack marksmen comprising the Shawnee county vigilante team won the state shoot held at the Sand Hills range of the Hutchinson Rifle Club, winning the Hutchinson Bank's trophy.

Sixty-two rifle experts, representing fifteen counties from all sections of Kansas, competed in the state-wide shoot. The Shawnee county team, composed of L. R. Lockenour, E. A. Murphy, E. S. Coulter and J. M. Wilson, had a total score of 547.

Close behind was the Rice county team with a score of 541 while Grant county was third with 539. Ottawa county was fourth with 535 and Reno county, fifth with 526.

High individual honors went to Rollo Giesen, Ottawa county shooter, who scored 142. Giesen was awarded the Kansas Vigilantes gold medal. Bronze medals went to the members of the Shawnee county team.

**MINNESOTA—At Roseau, Minn.,** a "Get-to-Gether" Shoot, October 3, brought three teams from the Winnipeg (Canada) Small Bore Rifle Association across the border to fraternize with the newly organized club in Roseau. The Winnipeg association is also of recent origin and being in a somewhat isolated spot has had no shoulder-to-shoulder matches with outside teams. The original intent was for the Winnipeg shooters to send down two teams, one ladies' and one men's and an elimination shoot was held to select such teams, but the weather was so very pleasant that they decided to also send along their second and third teams. In all, thirty-one Canadian marksmen were present.

Following the match a four course dinner was served the visitors in one of the local restaurants. Dr. Swanson, president of the Minnesota State Association, who with the cooperation of the state secretary, Mr. Kuch, had conducted the entire match, acted as toastmaster.

Following the dinner the group adjourned to a room of the county court house where talks by representatives of both the Canadian and the Roseau clubs and several reels of pictures supplied by the N. R. A. and Remington Arms Company provided entertainment and enthusiasm for the rifle sport.

Oh, yes, the Winnipeg men's and ladies' rifle teams nosed out the Roseau teams—the ladies keeping the visitors down to a three point lead while the men were being left behind by a twelve point margin. The outstanding feat of the shoot was the perfect score made by Miss Trophena Anderson, of Roseau, who scored a 100 possible for the only perfect score of the afternoon.—LARS C. LARSON.

**PENNSYLVANIA—The Sixth Annual Lehigh Valley Small Bore Championships** were fired over the range of the North End Rod and Gun Club, Sunday, October 24.

The day opened up under heavy, overcast skies and a culminating rain that threatened to wash out the day's matches. Just as the range officers called a conference to decide whether to fire the matches or call them off, the rain subsided and the skies began to clear off, and at 11 a. m. the first relay went on the firing line for the first match of the program.

When the smoke of the last match had cleared away and the statistical staff had finished their work, they announced the name of a new Lehigh Valley small bore champion, F. A. Clemens, of Wilkes-Barre, Pa. Mr. Clemens is no stranger to the small bore shooters of the Lehigh Valley, having finished runner-up in several of the Bear Rock matches. Clemens took possession of the Sears Roebuck trophy, along with the title.

Other winners include T. Samsoe, who fired a 17 x possible over the 50 yards, iron sights course; L. Bittner, who won the 100 yards iron sights match with a 198-14 x score and the 50 yards any sights match with a 16 x possible and also the No. 6 aggregate; F. Frohm in the Newweiler Special of 50 shots at 100 yards, any sights with a 499-31 x and G. Bomgardner who took the 100 yards any sights with a 199-13 x. (Allentown Morning Call.)

**NEW YORK—Long Island Rifle Team Matches.**—By shooting a score of 1587 x 1600 the famous Roslyn Rifle Club, for the fifth consecutive time, won the coveted Long Island rifle team championship cup. They set a new record of 1587, the old record being 1582, made by the Roslyn team in 1935.

Against strong competition in this annual event, the hard-hitting Roslyn team again proved its superiority on the outdoor range. The match consisted of 20 shots per man at 50 yards and the same number of shots at 100 yards with iron sights. Each team was composed of four men.

One of the highlights of the shoot was the superlative piece of shooting done by the winning team on the 100 yard stage. Each man shot a score of 199 x 200 possible. The Roslyn experts dropped only four points for the entire team at this, the most difficult stage of the match.

**NEW YORK—The Bronx Revolver Association** started their Fall program, October 4, with a Lucky Target Shoot for merchandise prizes. Competitions for club members and their friends are planned for each succeeding Monday evening at the pistol range of the 105th Field Artillery Armory at 166th Street and Franklin Avenue. Bronxites interested in rifle shooting may obtain information in regard to membership by writing to the secretary, Otto Franz, 464 East 159th Street.

**ILLINOIS**—Sunday, October 3, was the annual day of reckoning for Illinois and Wisconsin small bore riflemen who shot it out shoulder-to-shoulder at Fort Sheridan in the third "Interstate" match, a twenty-man team event. The Badger boys reckoned it was a good chance to break the tradition that the home team wins, but, alas, they reckoned without their hosts. Illinois rolled up a record-breaking total of 7,907 points. Wisconsin, in scoring 7,858, also shattered the previous meet record by seven points.

By this win Illinois took a two to one lead in the interstate series and with it gained possession of the glittering "Tincup Trophy" presented by Team Captain Loren Schiff on behalf of the Wisconsin squad.

On the morning of the "Interstate" fifty-five Illinois experts, selected on the basis of their summer's records, fired a preliminary in which the high twenty-five automatically were named as the team of twenty firing members and five alternates. This event was handled as a regular match and medals awarded to the high five—Lew Mason, 400; R. DeWeirdt, 399; Fred Johansen, 399; Ed Kress, 399, and William Sasko, 399.

Tryout scores were unusually high. The top twenty averaged 397½ points per man. The lowest score qualifying for the Illinois team squad was a 396. Interest in this event was state-wide. Nine out of the twenty firing members were from points outside Cook County including: Rock Island, Aurora, Mt. Vernon, Mattoon, Centralia and Joliet. Other towns represented in the tryouts (in addition to Chicago) were: Champaign, Onarga, Danville, Havana, Mt. Carmel, Clinton and Gibson City.—SHERWIN MURPHY.

**NEW YORK**—The Fourth Annual Revolver Match of Troop "L", New York State Troopers, was fired on Saturday, October 23, at the Troopers Range at Wyandanch, L. I., under the rules and regulations of the Nassau Suffolk Police Revolver Association.

Despite the bad weather, twenty-three teams competed and 227 individual scores were fired, making this one of the best attended matches of the association.

In event No. 1, the police five-man team match, standard course of fire on the Army "L" target, the first place went to the Nassau combine with 1426, a lead of seven points over the Troop L team. The Garden City team finished third in this first division. The Hempstead team led the second division with a 1352 score, followed by Rockville Center's No. 1 team whose score fell five points below. In the third division Lindenhurst fired a 1300 team total for first place, followed by Patchogue with a 1293 and Floral Park with a 1288.

The Nassau Revolver Club led the civilian clubs with a 1429. The New York National Guard team copped honors in the military match with a 1429 score. Highest individual score fired in the team match was that of Capt. W. K. Allen, of Nassau—a 297. Boardman with a 292 scored the highest civilian team individual tally.

Winner of the second event, the police individual over the same course as the team match, was Mott, of Nassau, who fired a 282. Rumens, of Sands Point, was second and Erdody, of Nassau, was third.

In the match limited to the commanding officers Captain McGowan, of Long Branch, led the way over the slow fire 25 yard course with an 87, with Sheriff La Forge, of Suffolk County, in second place by virtue of an 86 and Chief Lavy, of Babylon, in third with an 85.—SIDNEY MARANOV.

## COMING EVENTS

### CALIFORNIA

\*December 19: Southern California Pistol League Matches sponsored by the Los Angeles Police Revolver and Athletic Club to be held at Los Angeles.

### FLORIDA

\*March: National Mid-Winter Pistol Tournament to be held in Tampa, Florida. For programs write Mr. C. A. Brown, Box 253, Tampa, Florida. The exact dates will be announced later.

### ILLINOIS

December 12: Cap and Ball match at Hyde Park YMCA Range, 1400 E. 53rd St., to be fired at 75 ft., using the standard 25 yd. pistol target. Entry fee 50 cents, prizes for three places. Frank J. McCoy, Sec.

### NEW JERSEY

\*January 21-22-23: Middle Atlantic Championship Matches to be held at Newark, New Jersey. Sponsored by the Essex Troop Rifle Team. For programs write Mr. Charles E. Rousek, Jr., 507 Main St., East Orange, New Jersey.

### NEW YORK

\*January 22-23: Niagara Frontier Indoor Small-bore Rifle Tournament to be held on the 174th Infantry Range. All shooting at 100 yards. Entries close Friday, January 21st. Sponsored by Buffalo Revolver and Rifle Club. For programs write C. M. Bickers, 187 Leroy Avenue, Buffalo, New York.

December 4-5: Fourth Annual Gallery Championship Matches to be held on the Richmond Hill Range. Sponsored by the Long Island Rifle and Pistol Association. For programs write George Haderer, 8919 89th Avenue, Woodhaven, L. I., N. Y.

Every Monday Evening: Bronx Revolver Association Matches held on the 105th Field Artillery Armory Range. For programs write O. G. Franx, 464 East 159th Street, Bronx, New York.

April 16-17: Niagara Frontier Pistol and Revolver Championships at Buffalo. Sponsored by the Buffalo Revolver and Rifle Club. For programs write Wallace A. Beattie, 518 Jackson Building, Buffalo, New York.

\* Indicates Registered Tournament.

## HAVANA PISTOL MATCHES

**W**ORD has just been received from Cuba that plans are already being made for the 1938 Havana Pistol Matches. Dates have not yet been definitely established, but plans at present call for the tournament being held shortly after the annual Tampa matches—the latter part of March.

The Casino Deportivo Pistol Range has been improved still further during the past year, and should make an ideal setting for next year's events. A well rounded program is being worked up with several new matches for both center-fire and .22 caliber arms. The Cuban shooters will be fresh from the Central American and Caribbean Olympic Matches, and will provide ample competition for those making the trip to the Second Annual Havana Pistol Tournament.

Make your spring plans to include the Havana Matches—we promise you a fine time and the opportunity to make many new shooting friends.

## STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACTS OF CONGRESS OF AUGUST 24, 1912, AND MARCH 3, 1933

OF THE AMERICAN RIFLEMAN, published monthly at Washington, D. C., for October, 1937.

City of Washington, District of Columbia, ss:

Before me, a notary public, in and for the State and county aforesaid, personally appeared Laurence J. Hathaway, who, having been duly sworn according to law, deposes and says that he is the Editor of THE AMERICAN RIFLEMAN, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation) etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher: National Rifle Association of America, 816 Barr Building, Washington, D. C.  
Editor: Laurence J. Hathaway, 816 Barr Building, Washington, D. C.  
Managing Editor: C. B. Lister, 816 Barr Building, Washington, D. C.  
Business Managers: Executive Committee National Rifle Association of America, 816 Barr Building, Washington, D. C.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

National Rifle Association of America. No Stockholders. 816 Barr Building, Washington, D. C.

3. That the known bondholders, mortgages, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mail or otherwise, to paid subscribers during the twelve months preceding the date shown above is (This information is required from daily publications only.)

LAURENCE J. HATHAWAY, Editor.

Sworn to and subscribed before me this 27th day of September, 1937.

[SEAL.] HELEN A. LOSANO,  
Notary Public, D. C.  
(My commission expires Aug. 28, 1938.)

## GUNS STOLEN

Shotguns stolen from the main storeroom of the Carnegie Museum, Pittsburgh, Pa., should have been listed under last month's notices as 2 12-g. A-grade 30-in. Fox, Nos. 22,983 and 22,984. Through an error one was listed as 22,982.

## CHALLENGES

The Caledonia Rifle and Pistol Club of Lyndonville, Vermont, would like postal, gallery rifle matches. 10-man teams with 5 high scores to count, 10 shots prone and 10 standing, on official N. R. A. targets at 50 feet with metallic sights. Scores to be exchanged but fired match targets to be preserved for 15 days in case of protest. P. H. Teachout, secretary.



# American Rifleman Index for 1937

This index lists all major articles. Readers can add such of the shorter articles as they see fit.

Rifle							
Title	Author	Issue	Page	Title	Author	Issue	Page
A Beginner Takes Up the Schuetzen Rifle.....	Samuel Clark, Jr.....	January.....	11	A De Luxe Hornet.....	Victor A. Coulter.....	November... 25	
Sport With the Coyote.....	Clarence M. Crum.....	January.....	27	Last-Day Deer.....	Harold Wales.....	December... 6	
C. W. Rowland Has Left the Range.....	Allyn H. Tedmon.....	January.....	30	The Kentucky at the Plain of Chalmette.....	Harlow Pease.....	December... 13	
Double-Barrel Rifles for Timber.....	Elmer Keith.....	February.... 5		Barrel-Length and Gun Balance.....	Walter F. Roper.....	December... 21	
Shrinking the Mean Radius.....	J. R. Bunneller.....	February.... 16		The .25-20 and Its Grandchildren.....	Allyn H. Tedmon.....	December... 22	
Review of the 1936 Small-Bore Season.....	F. M. Hakenjos.....	February.... 17		Pistol			
New Cast Bullets for the .270.....	Byron E. Cottrell.....	February.... 19		Title	Author	Issue	Page
Missouri Groundhogs.....	H. S. Rummell.....	February.... 20		Customs Patrol Wins Morgen-thau Trophy.....		January..... 24	
The Perfect Hunting Rifle.....	Harold O. Lokken.....	February.... 23		Early Colt Cartridge Types.....	M. D. Meiser.....	January..... 25	
I Gave Up and Became a Two-Gun Man.....	J. L. Lyden.....	February.... 27		Revamping the .22 Defender.....	Vann H. Smith, M.A.....	February.... 32	
The Boy's Gun.....	M. A. Cooper.....	February.... 28		One All-Around Outdoor Pistol.....	J. V. K. Wagar.....	March..... 20	
Hornet and .250 Target Loads.....	Perry D. Frazer.....	February.... 33		A Streamlined "Mauser" Pistol.....	Alan O. Borden.....	April..... 15	
Cherokee Forest Tuskers.....	John H. Halliburton.....	March..... 7		A Tyro's Thoughts on Pistol Shooting.....	Willard C. Poole, Jr.....	May..... 20	
The .25 Stevens Rim-Fire.....	Allyn H. Tedmon.....	March..... 14		The Colt Dragon on the Plains.....	T. B. Tryon.....	June..... 24	
The Tyro.....	Gordon M. Payne.....	March..... 16		Take It Along.....	J. V. K. Wagar.....	July..... 8	
Bisley—We're Coming Back.....		March..... 17		Barrel Length and Sight Radius.....	W. F. Roper.....	August..... 8	
Backwoods Rifling and Some Old Winchesters.....	Howard L. Haines.....	March..... 18		My Pistols and Revolvers.....	Norman Clyde.....	September... 12	
Powder and Patches.....	Al Tompkins.....	March..... 21		Pistol Matches at Camp Perry.....	C. A. ("Smitty") Brown.....	October..... 17	
The .250 O'Neil Magnum.....	Elmer Keith.....	April..... 5		Loading the Cap-and-Ball Revolver.....	C. J. Kellem.....	November... 27	
A Woodchuck Rest.....	H. A. Donaldson.....	April..... 9		Battling the Buck.....	Elliott Jones.....	December... 8	
Memoirs of a Second-Rater.....	One of Them.....	April..... 10		Shotgun			
Use of the Stadia in Hunting.....	H. E. Bartlett.....	April..... 11		Title	Author	Issue	Page
Restoring Muzzle-Loader Barrels.....	Lou Cowher.....	April..... 16		Wanderings of a Desert Loafer.....	Charles Askins.....	January..... 18	
Grade Shooting.....	M. J. Patterson.....	April..... 22		"Shooting Flying".....	T. B. Tryon.....	February.... 13	
West Coast Tries N. R. A. Deer Match.....	F. C. Ness.....	April..... 24		Caw! Caw! Caw!.....	Gerald Averill.....	March..... 24	
An Intimate View of Africa.....	Arthur Howard Young.....	May..... 7		Flintlock Sporting Guns of the Days of Joseph Manton.....	W. Keith Neal.....	April..... 20	
Black-Powder Smoke.....	E. A. Brininstool.....	May..... 12		Still Strong at Sixty.....	Archibald Oliver.....	May..... 11	
The Farrow Rifle.....	N. H. Roberts.....	May..... 15		The Value of Shotgun Patterns.....	A. P. Curtis.....	June..... 19	
Wanted: A More Powerful Rim-Fire.....	Daniel Dean.....	May..... 18		Wanderings of a Desert Loafer.....	Charles Askins.....	July..... 20	
Chasing the Sun.....	John Scofield.....	May..... 21		Wanderings of a Desert Loafer.....	Charles Askins.....	August..... 20	
Two Days—Two Big Bucks.....	Kenneth Fuller Lee.....	May..... 24		Making Double Shotgun Barrels.....	A. P. Curtis.....	November... 20	
Bisley Preparations Continue.....		May..... 30		A Shotgun Rechoking Tool.....	Muse Davis.....	December... 16	
Vacation Echoes of 1936.....	N. H. Roberts.....	June..... 5		Miscellaneous			
An Old-Timer Speaks.....	R. C. Ward.....	June..... 9		Title	Author	Issue	Page
Hunting Marmots in the Rain.....	Allyn H. Tedmon.....	June..... 10		Problems as Well as Progress Expected in 1937.....	C. B. Lister.....	January..... 5	
George Titherington, Barrel-Maker.....	Henry J. Adams, Jr.....	June..... 12		The Sheath Knife.....	Frantz Rosenberg.....	January..... 8	
Woodchucking With a .22-3000 Lovell.....	Byron E. Cottrell.....	June..... 23		Game Cycle from the Farmer's Viewpoint.....	J. L. Strang.....	January..... 13	
Black-Powder Days.....	E. A. Brininstool.....	July..... 5		What Price Gunsmithing?.....	Ellis Christian Lenz.....	January..... 15	
Solid Bronze Bullets in the .220 Swift.....	Elmer Keith.....	July..... 11		The Ideal Sportsman's Camera.....	John Halliburton.....	January..... 22	
Vacation Echoes of 1936—Part II.....	N. H. Roberts.....	July..... 13		Digest of State Firearms Laws—Parts III and IV.....		January..... 32	
A Real Medium-Game Rifle.....	Alden McKim Crane.....	July..... 19		The N. R. A. Firearms Collection.....	J. K. Scofield.....	January..... 35	
Nelson Lewis, Gunmaker.....	Floyd R. Butler.....	July..... 24		Guns and Shooting in Argentina.....	A. Engelhardt.....	February.... 22	
Bushbuck Island.....	Wilfrid Robertson.....	July..... 27		Duck Hunting in South Dakota.....	George H. Wallace.....	February.... 31	
Experiments With the .219 Zipper.....	John G. Schnerring.....	August..... 6		Highlights of the N. R. A. Directors Meeting.....		March..... 12	
We Saw Them Off to Bisley.....	W. F. Shadel.....	August..... 7		We Always Get a Kick Out of Shooting.....	T. A. Lamke.....	March..... 22	
Muzzle-Loader Kinks.....	E. F. Brandt.....	August..... 21		Homesteads and Guns.....	P. H. Manly.....	April..... 12	
A Non-Ricocheting Cast Bullet.....	Raymond Wagner.....	August..... 25		A Good, Easily Made Scope Stand.....	Maj. Ernest C. Dreher.....	May..... 16	
The Pershing-Trophy Team at Bisley.....	The Old Adjutant.....	September... 5		A Home-Made Reloading Outfit.....	E. M. Polk.....	May..... 27	
Nelson Lewis—Some Further Facts.....	F. P. L. Mills.....	September... 19		A Chronograph for Hand-Loaders.....	John M. Malone.....	June..... 15	
The Small Bore at Perry.....	John Scofield.....	October..... 14		Shooting Takes to the Air.....	C. R. Rogers.....	June..... 26	
The World Championships in Finland.....	Ye Team Captain.....	October..... 19		A Decoy Hunt for Lynx.....	Henry F. Zinner.....	June..... 28	
Autumnal Interlude.....	T. A. Lamke.....	October..... 22		Hunting-Knife Points and Edges.....	P. H. Manly.....	July..... 23	
Coyotes.....	George K. Turner.....	November... 9		Looking Back.....	R. R. Sweet.....	August..... 3	
Handloading for the .22-3000 Lovell.....	H. S. Rummell.....	November... 13		Dividing an 80-Ton Game Bag.....	Leon S. Vincent.....	August..... 9	
Some Home Gunsmithing.....	G. N. Humphrey and L. C. Backett.....	November... 14					
A Fine Cartridge.....	F. C. Ness.....	November... 16					
Shooting Mountain Lions on the Oregon Trail.....	Rosa M. Overton.....	November... 19					



## American Rifleman Index for 1937—Continued

Title	Author	Issue	Page
Causes of Bulged or Fractured Barrels	A. P. Curtis	August	12
Historical Old Shot Tower of Virginia	L. C. Elmore	August	13
The Owl and the Candid Camera	Frank Sherburne	August	16
Hunting the Wild Turkey	Henry E. Davis	August	17
Two Tyros in the Catskills	Douglas C. Cousins	August	22
A Lesson in Reloading	J. V. K. Wagar	September	9
Fifty-Seven Years of It	J. N. Parker	September	11
More About Hunting the Wild Turkey	Henry E. Davis	September	14
Magnums and Service Rifles at Perry	C. B. Lister	October	9
The "Quicky" Targets	Maj. Ernest C. Dreher	October	30
A Texas High School Leads the Way	Alfred S. Jackson	November	5
Better Light—Better Scores	A. N. Tuttle	December	5
What Made the Spark	Charles T. Haven	December	9
A Visit to Our Old Friend Shift's	Floyd R. Butler	December	14
Your Choice	William H. Braddock, M.D.	December	17
Reminiscences of a Happy Hunt	P. H. Manly	December	19
An Indicating Target	F. C. Ness	December	20

### PAGING THE OCULISTS

Editor THE AMERICAN RIFLEMAN

Dear Sir:

How about an article in THE AMERICAN RIFLEMAN on the subject of eyesight? There are no doubt a number of N. R. A. members who are, by profession, authorities on this subject, and I am sure that the subject itself is one of deep interest to many of the brotherhood, particularly those who are well into middle age, and whose changing eyes have begun to make close shooting difficult. I believe there is much good advice possible for this group of shooters. Some of us have by experiment found out a few things for ourselves, as for instance in my own case. I need reading glasses for close work, and of course for seeing revolver sights clearly, but the use of such glasses invariably dims the bull. So I now have my guns sighted to hold right in the center of the gray blur which is all the bull looks like to me, and get along pretty well—even shot a 300 possible in practice a few weeks ago on the "L" target, usual D course. I mention this to prove that eyes that need glasses for close focussing need not spoil a man's shooting.

But they do impose a handicap. I have experimented with a single lens, in the sighting eye, and no lens in the other, which thus sees the bull clear and black. The result was a bit confusing and I should like to learn from some authority if this and other subterfuges are of any use.

Also, for 200 yard rifle work with the .30-'06 I use reading glasses and an aperture front sight, and hold the little dim

flyspeck that represents the bull, in the center of the aperture. This works pretty well. But maybe there are other, better schemes that I do not know about.

Then, too, while I am on the subject, I should like to see an occasional full-length article on how to run a rifle club interestingly. I know that this matter is mentioned in THE AMERICAN RIFLEMAN from time to time, but I regret to say that so far it hasn't helped me much, as President of a local club (Port Washington, N. Y., Rifle & Revolver Club).

We shoot pretty nearly everything, scheduling each Sunday in the month for organized practice with some particular arm—.45 pistol or revolver, .38 revolver, .30-'06 rifle, and deer rifle, and shotgun stuff on the side. We have an occasional novelty match with small prizes, that usually is enthusiastically attended, and of course Thanksgiving and Christmas turkey matches. We avoid specializing in any one arm, and that perhaps helps to keep the interest up. We have worked up a number of stunts, such as a deer profile marked off for scoring, camouflaged with tree branches, at 100 yards (at the whistle turn, spot your deer, and fire five shots in 20 seconds).

We are also playing with super-rapid "defense fire" with the pistol—5 shots in 5 seconds on the "L" target, 15 yards. Some fearful and wonderful (?) scores are made at this.

The above details may suggest the kind of article I have in mind. There are no doubt numbers of other interesting and practical developments which others have worked out, and which serve to prevent the regular courses of firing from becoming

monotonous. A few articles on this subject may be a help to numbers of clubs like ours, and would serve to make THE RIFLEMAN, to this reader at least, even more interesting than it now is.

Cordially,

WILLIAM E. PETERSON.

### A HAPPY HUNT

(Continued from page 19)

found them looking up a big, tall pine that was leaning slightly. An eye-paining search finally disclosed a gray squirrel lying flat on the topmost limb, fully 120 feet above the ground. It was hard to tell which end of the large bushy tail the squirrel was on; but we finally decided that a little bump on the limb was its head. Right then I made one of my best shots—but with sad results. I rested the rifle, and fired. The squirrel fell, shot through the head; and it never touched a limb on the way down. It struck the hard ground, *whack!* and burst wide open. It was full of very rich food—acorns—and we knew the meat would be too tainted to eat, so had to leave it. We always cleaned the squirrels as soon as killed.

The next stop was when Herman's dog treed another pheasant, which Herman soon added to his sack. He loaded his gun and pipe, and then looked into his game sack, which was getting somewhat heavy. "Vere is dot rabbit? I thought I put him in der sack. Don't I kill a rabbit in der svale?" I surely had to laugh at his consternation, but thought of something, and said: "Maybe you just slid the rabbit between the sack and your body, instead of bagging it." We went back down the swale, and there lay the rabbit. "Vell!"

As it was getting near evening and we were close to a trail leading home, we called it a day and started back. Herman had shot the most game, but I had had the most laughs, so was satisfied. I always hunted for fun, and not to see how many hardships or endurance tests I could survive. It is the day, the place, the weather, and the company, that make a happy hunt.

### THE .25-20

(Continued from page 24)

ble as to which was better on grizzly bear, the .25-35 or the .45-70! Boy, those were the good old days, and no fooling. And today, after all these years, and in spite of all the Swifts, Hornets, Zippers, and the like, the .25-35 maintains its deserved popularity. Long may that most useful little cartridge live! When Remington brought out their auto-loading rifle they included in its repertoire a rimless version

of the .25-35, and it was a success from the beginning.

But speaking of the .220 Swift and other recent high-velocity cartridges, let us hark back to 1908 or 1909. By no means do we today have a monopoly on high-velocity accurate small-bore rifles. Doctor Mann, Charles Newton, E. A. Leopold, N. H. Roberts, A. O. Niedner, Mr. Baker, and others of that period, designed and produced some of the finest rifles of this type ever used. From the information I have I am of the opinion that the first .25-caliber high-velocity rifle was made for Mr. Roberts by Mr. Niedner, in December, 1910. Mr. Roberts writes that in May of that year he took a Stevens .25-25 rifle to Mr. Niedner, and had the chamber recut to take the .30-40 case necked down to .25 caliber. Perhaps Doctor Mann had started this idea at his Homestead Range, but at any rate Mr. Roberts set the ball to rolling.

On December 10, 1910, this rifle was tested for accuracy with cartridges loaded with charges of 19, 25, and 30 grains respectively of Lightning powder, and the Winchester 86-grain soft-point bullet. The rifle gave such surprising results that from then on Mr. Niedner was apparently kept busy rechambering .25-caliber Winchester and Stevens rifles to take this case. The velocity obtained with a 28-grain charge of Lightning and the 86-grain bullet was 3000 foot-seconds. As to accuracy, Mr. Roberts wrote at the time that: "When a rifle will shoot so accurately that seven out of ten bullets will hit a dime at 200 measured yards, you will realize that it is 'some shooting,' and that it takes a mighty fine gun and perfect ammunition to do it." In a copy of old *The Outdoors Book* there is a picture of this very group. It was shot by Mr. Niedner from machine rest at 200 yards. The spread of the full ten shots is just  $1\frac{1}{16}$  inches, and a dime will cover the seven center shots completely. Another ten-shot 200-yard group fired by Mr. Niedner measures  $1\frac{3}{16}$  inches. One 100-yard group by Mr. Roberts measures  $1\frac{1}{8}$  inches, and another  $1\frac{3}{16}$  inches. In other words, these original .25-caliber high-velocity rifles were just about as accurate as anything we have today.

And, mind you, they were all single-shot rifles, made up on actions that we are today often told are junk. The fact is that most accurate and delightful woodchuck and target rifles may be built around any of our best pre-war single-shot actions. There is no rifle made today so beautiful in design, or with such exquisite handling qualities, as the old Ballards.

Following in the path of these advanced-thinking men of 30 years ago, the Savage Arms Company in April, 1915, brought out the Savage .250-3000 cartridge—a creation of the late Charles Newton. I ordered one of the first of these Savages,

and still have that rifle; and it has been the most generally satisfactory and all-around usable rifle that I have ever owned. This cartridge was years ahead of its time, and it is today one of the most popular medium-power cartridges manufactured. It is very accurate, reloads well, and has plenty of power for all small deer; and when used by experienced men it takes the big stuff in a way to cause admiration.

A few years ago none other than N. H. Roberts himself—the grand old dean of rifle-shooting since the passing of C. W. Rowland—gave to the riflemen of America one more high-class .25-caliber cartridge—the .257 Roberts. This is a most satisfactory combination of powder and lead.



## RINGING IN HEALTH

### The 1937 Christmas Seals



**BUY and  
USE them**

The National, State, and Local Tuberculosis Associations in the United States

It is extremely accurate, and its larger case makes possible the use of the 117-grain bullet at high velocity, a thing not easily accomplished with the smaller .250-3000 Savage case. And was this the end? Oh no. In the April issue of this magazine, Elmer Keith—who in my estimation is today the outstanding authority in this country on game rifles—presents us with the .250 O'Neil Magnum! And is this the limit? Don't ask me. I would rather attempt to prophesy the weather in Colorado than to hint that Keith has reached the end. But at least until the next issue of *THE RIFLEMAN*, the .250 O'Neil Magnum stands at the head of its class, and from what Keith says, this is *some* cartridge.

This, in brief, is the story of the .25-20 Single Shot cartridge and its long list of illustrious grandchildren. And not a one of the lot has failed to achieve popularity,

while the old original grandparent still stands a proven cartridge for the man who does not like the "tiny bore," yet refuses to "dynamite" his quarry into eternity. Long may this cartridge live, to continue to fill its own snug sphere of usefulness.

## BETTER LIGHT—BETTER SCORES

(Continued from page 5)

The conditions at the beginning were undoubtedly as poor as could be found. The ceiling was dark, with deep rafters. The walls were red brick, and there were black pillars in the center of the room. The electrical facilities were also poor.

The members went to work with a will. They nailed old newspaper mats on the ceiling over the firing line. The walls and the bullet-stop were painted a light buff color, and two indirect-lighting fixtures were built. These indirect-lighting units consisted of inverted dome reflectors mounted on the top of gas-pipe standards which were supported on heavy wooden bases. These fixtures were equipped with sockets large enough to take lamps up to 500 watts. Lights were placed about 3 feet behind the firing line, and various lamps were tried. Finally the 500-watt size, the largest which could conveniently be used in the reflectors, were installed.

More standards may be required, and the height of these standards will depend upon the height of the ceiling. The object is to produce as much indirect light as possible, without glare or irregularity, at all points along the line. Our firing line is about 40 feet wide, and with these two fixtures we were able to obtain from 6 to 7 foot-candles of illumination at eye-level quite uniformly. To increase this illumination will necessitate more standards, placed closer together.

With the increased light at the firing point it is possible to greatly raise the level of illumination at the targets without producing glare. The lighting experts tell us that this can be as much as ten times the general level of the room. In our case we have about 20 to 25 foot-candles on the targets.

Several of the men shooting on this range have commented upon the absence of headaches, which they had previously experienced after an evening of steady shooting. These headaches were probably due to eye strain produced by improper ratio between the lightest part of the room, which is the target area, and the rest of the room. Experts tell us that this ratio should not exceed 10 to 1, otherwise the constant change of the diaphragm, or adaptation of the eye to the contrasting light values, tires the muscles and results in serious eye strain, and even headaches. With the firing line properly lighted and the ratio of light between the targets and

firing line properly balanced, the eye does not have so much work to do in adapting the diaphragm to the change in the amount of light when the shooter looks down from the target to reload, and vice versa.

Some actual scores will show more clearly the possibility; in other words be sort of "before and after" testimonials. As mentioned before, we have not yet reached the desired light level, as we have only about 6 or 8 foot-candles at the firing line and 20 or 24 foot-candles at the target. However, we noted the following results for a team shooting twice a month all winter in a league, firing a slow, time, and rapid course: For the four matches prior to the change in lighting, the scores were 1239, 1287, 1259, and 1260. After lighting, the scores for the next four matches were 1335, 1329, 1319, and 1291. Average before, 1281; after, 1318.

There are many experiments and much further investigation that could be carried on along these lines. For example, it would be interesting to know the relative size of the pupil of the eye of different individuals under different levels of light, in an endeavor to find the best compromise, approaching as near as practicable to daylight conditions. Obviously, we cannot have from 500 to several thousand foot-candles of light for the pistol range as we have out-of-doors, but probably some lower value of illumination would be sufficient to contract the pupil and give good average conditions for most individuals. Perhaps some of our illumination laboratories will take this matter up.

Incidentally, if you are interested in attacking the problem of lighting your range, you can undoubtedly find a lighting expert in your local power-company organization. If not, you can get in touch with the large manufacturers of incandescent lamps, who maintain experts throughout the country who would be glad to give advice on this matter.

#### BARREL-LENGTH & GUN BALANCE

(Continued from page 21)

maximum machine-rest accuracy, and this can be obtained with a barrel just halfway between the light-barrel H. & R. U.S.R.A. Model, and the medium-weight barrel made for that pistol about two years ago. There is nothing new in the idea of adding weight to a light barrel to make it balance more to the liking of the individual. Rods have been used for years on the old light-barrel S. & W. 91 Model and the later Perfected, but it has been my observation that the amount of weight added has never been very accurately worked out, and the method of obtaining the different balance has been rather crude to say the least, and hardly in keeping with a finely made gun.

To make the balance easily adjustable by small amounts, and at the same time add to instead of detracting from the appearance of the gun, I worked out some time ago the detachable hollow wooden fore-end arrangement shown herewith. This fore-end, as can be seen, is split lengthwise in a vertical plane, and simply clamps to the barrel by means of two cross-screws. It is hollowed out to fit partly around the barrel so that it cannot slip off, and the friction even on a somewhat tapering barrel is sufficient to prevent any change in its position.

To permit fine adjustment of the balance, the weights are in the form of cylindrical rods of lead, approximately  $\frac{1}{2}$  inch in diameter, and of various lengths. In addition, several sections of  $\frac{1}{2}$ -inch wooden dowel are used to fill the space not occupied by lead. To accommodate these cylindrical weights, the inside of the fore-end is recessed with grooves  $\frac{1}{2}$  inch in diameter.

The result is an attachment that actually adds to the "gunny" appearance of the pistol, and provides a simple means of accurately obtaining just the balance needed to make the pistol hang best for each shooter. And I may say at this point that not until you shoot a pistol that has exactly the right balance for you, will you shoot your best with any consistency.

Now just a word about the effect of different types of balance upon one's scores—or rather groups. In general it can be assumed that the pistol is muzzle-light when the front sight "dances," and that the muzzle weight is too great when the shooter has to continually fight to keep the front sight up to the six o'clock point, or prevent it from settling down in the rear notch. A pistol with too little muzzle weight will give the shooter a rather scattering group, with usually two or three very wild shots that got away during one of the quick movements of the muzzle. Too much weight at the muzzle will invariably put a tail on the group at six o'clock. Correct balance is indicated by a reduction in the size of the group, the elimination of most of the wild shots and less wildness of those that do get away, and the absence of the six-o'clock tail.

One thing is certain: so long as shooters' eyes, muscles, ability to hold, and hands, continue to be as unlike as they now are, best results in pistol shooting can be expected only when the gun is made so that sight radius, balance, and stock can be varied to meet the requirements of the individual. Furthermore, as the matter of barrel accuracy is something entirely separate and apart from these matters of individual fitness, it is not in the least logical to attempt to meet these requirements by sacrificing barrel accuracy by shortening the length of the bore.

#### LAST-DAY DEER

(Continued from page 7)

the other party beginning their drive across Turkey Mountain.

Suddenly pandemonium broke loose in Bee Hollow. My heart rose in my throat. I was between two drives!

Listening to the drive up Bee Hollow, I heard the hounds strike a strident bawl and head straight toward me. Those hounds were covering ground, hot on the trail of a deer headed for the Game Refuge. The deer would cross the fire-trail!

Watching the fire-trail, I waited with pounding heart. But the deer outguessed me. Far down the trail a buck shot across the opening, scrambled up the slope to reach the point. In an agonized moment I debated with myself. Should I risk a shot?

I decided against it. Better to let the deer escape into the forest than wound it and leave it to a horrible death.

No meat in camp, I recalled. But what about Dan? He had disappeared over the point. When the drive started, he must have slipped back to the crossing where the chase was headed. The crack of a rifle confirmed my reasoning. I yelled from sheer joy, and started toward my companion.

The mountain was steep and rough. At intervals I stopped and yelled, but the mouthing of the hounds was all I could hear. I began to wonder if someone else had shot the deer. The report sounded like Dan's rifle. But why didn't he answer?

Reaching the top of the mountain, I scanned the slope on the other side. I saw a man bending over a deer on the ground. As I approached, he straightened and looked around. It was Dan.

Rejoicing, I ran to him and admired his kill. It was a spike buck, not large but fat. Dan had scored a clean hit near the heart, nicking the spine. The deer ran fifty yards with its fatal wound before it fell against a stump, dead.

"I was afraid to yell," Dan explained, "afraid the other bunch might claim part of the deer for their drive."

"Humph!" I snorted. "Let 'em try it. There'll be a battle on Turkey Mountain!"

There was rejoicing in the Bearhead Hollow camp. On our return we found Ed Cartwright with an eleven-point buck that dwarfed Dan's kill. Happy hunters congratulated the lucky ones, and admired their last-day deer.

Already cook was breaking camp. Under the supervision of the camp captain, the deer were dressed and divided among the hunters. Hands were clasped warmly as men left for their various homes. Warm farewells speeded the travelers on their way.

"Good-by . . . Good luck . . . See you next year!"



## AN INDICATING TARGET

(Continued from page 20)

zontal rods. Each indicator paddle is counter-balanced very simply by an adjustable weight which returns it to concealment immediately after the bullet's impact has swung its number-bearing blade into view.

From our experiments with it I would say that this automatic target operates reliably and positively with any standard small-bore cartridge. I used old .22 Short Lesmokes on it for sighting-in the Model C Hi-Standard pistol. The target is well adapted for this purpose, as each hit is at once indicated to the shooter without spotting. High-velocity loads complicate the scoring by their excess spatter, and do not register true values. Also, their back-spatter off the flat rings quickly cuts and tears the target paper.

The device should prove efficient up to 50 meters. At 100 yards wind deflection and trajectory may affect the recorded value of a shot, because the target must be so placed with relation to the firing position that its face will be at, or nearly at, right angles to the line of fire, both vertically and horizontally. It is suitable for club matches or novelty matches, but is neither claimed nor intended to be sufficiently accurate for official matches. It should prove a great attraction at any commercial gallery or outdoor range. For true scoring values, the 50-meter rifle target is required, but any target or paper bearing an aiming mark will do.

Referring to the cuts, the indicator paddle of the large figure above signals a hit in the 2-o'clock segment of the 8-ring. Figure 1 indicates a hit in the 10-ring, or bullseye. Figure 2 shows a 3-o'clock hit in the 8-ring. Figure 3 signals an 8-ring hit at 12 o'clock.

This target became very popular at the local indoor club, and hundreds of shots have been fired on it during the past several weeks. The paper target is easily replaced, as bullet-proof spring-clamps are provided in each corner. For obtaining true scoring values, the 50-meter rifle target must be accurately positioned, and register lines are provided for this purpose.

The upkeep cost of this machine is remarkably low. A removal of bullet fragments from the catcher once a week is the chief requirement. An occasional drop of oil on some pivot or bearing might be advisable, and a coat of paint for outside bullet-splash marks would hide the evidence of wild shots. That is all.

For further particulars write to Dr. F. Loewenberg, 10 East Fortieth Street, New York City.

## A VISIT TO SHIFF'S

(Continued from page 15)

Action. I moved the back strap and trigger-guard plate from both guns, and, after exchanging them, found that the holes lined up perfectly. The screws, however, had different threads, and had to be put back into their respective frames. I found that this improved the grip and balance of the Single Action Colt to a marked degree.

During my conversation with Shiff the latter remarked that he had quite a stock of the .44 Colt Civil War revolvers that he would sell at a very reasonable price; and if any of the readers of this article would like to try changing grips on their Single Actions, they will find it an almost painless operation.

Shiff has tons of ammunition, both old and new, and a very fine mounted collection of cartridges.

One shelf is piled to the ceiling with old books on guns and various historical subjects. To make a long story short, Shiff has spent years in accumulating this stock of guns and other things.

We have been making one or two trips a year to this place, and have found Shiff to be honest, generous in trading, courteous in manner, and a veritable walking dictionary on the subject of guns.

After making our trades in the usual satisfactory way on this last trip, consuming more than three hours of Shiff's valuable time while we soaked up all the information we could about old guns, we reluctantly left North Woodstock, and arrived home with our trophies, after driving through the usual Sunday-afternoon traffic.

## BATTLING THE BUCK

(Continued from page 8)

just because it is going to be marked up on a bulletin board. And sure as h—, when we get into this frame of mind and flop that same kind of six that we got in practice, we are going to have a tête-tête with that horned menace.

So we go back to "forgetting," and don't do anything extra-special just because there is a medal involved. Proceed to do anything just as you would do at home on a Sunday practice session. If you spot every shot then, do it now. If you normally hold the gun in your left hand between shots while you shake the blood back into your right-hand fingers, do it again. If you swear at home, go ahead. Make your cussing kind of soft and vibrant, though, or some of that new sex that's beginning to shoot like h— may frown and tear down your tunnel.

There's one other point which goes hand

in hand with what we said about not trying too hard just because you think you are in a match. Remember your average at home. Knock off five per cent. What's that? Eighty per cent? All right, then shoot for eights. Be glad, of course, when you get a nine or ten, but shoot for eights and make that your standard. A seven should not upset you if you are shooting for eights, because a nine will correct that all right.

One more thing that is a great aid to concentration, and helps you to keep in that world of your own, is talking to your gun. If you think it sounds silly, try it anyway for a Buck antidote. It is said that Bill Tilden, whenever he found himself hard pressed in a tennis match, used to talk to his racquet. Of course the stands didn't hear him, and of course you don't have to call your pistol a son-of-a-dachshund so loud that they will rewrite the ground rules; but speak to it nevertheless. Praise it or blaspheme it. Treat it like a personality, and your confidence will improve and your concentration will increase, as you stand there "all by yourself," saying: "C'mon, you old beat-up, worn-out relic; let's get going. Stop that shaking. That's it; settle down right there under the black. Hold 'er, hold 'er—target twenty-three, target twenty-three. . . ."

## YOUR CHOICE

(Continued from page 18)

yesterday) came back from his White camp.

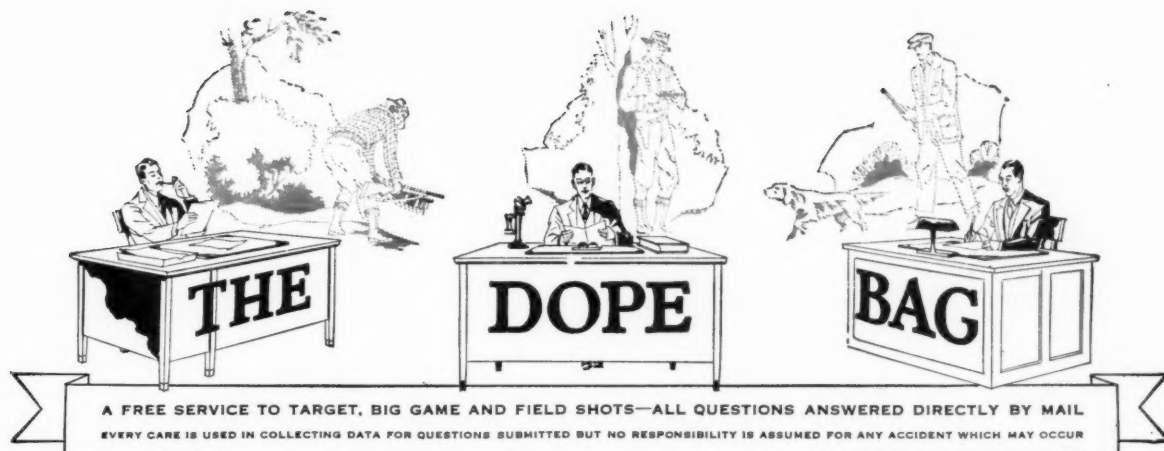
Off-handedly, "Dad, I've got a chance to go to Perry in September, with the Corps Area C.M.T.C. Team. Do you mind?"

Did I—mind?

There weren't any startling results. This is real life, neither a novel nor a movie. A place on the winning Corps Area team, just below the middle, a couple of average qualifications; then in the Blue camp, more qualifications, with the pistol, machine-gun, etc.—nothing to write to the papers about. But have I my reward?

Brother, I'm not trading with you for your Distinguished Rifleman medal, not if you throw in a trailer-full of President's Cups. A soft-headed sentimental fool, am I? Maybe. There's no chance for me ever to make what you have, so I'll never know just how you feel, and it may be you have tried my game. In that case, I say no more. But if you haven't, come now, try it. Borrow a specimen if necessary, as I suggested before; but try it just once. Then tell me I'm mistaken.





Conducted by F. C. Ness

## The Foolproof Lovell

**W**ITHOUT benefit of the powerful commercial support extended to every other popular sporting and target cartridge by our loading companies, the grossly neglected .22-3000 Lovell cartridge continues to acquire more and more enthusiastic advocates and establish itself more and more firmly in popular esteem. Varmint hunters, farmers, small-game shooters, experimenters, turkey-match competitors and reloaders have found nothing better than the .22 Lovell for all ranges up to 250 yards. All this despite the handicap accepted by its fans, which is the compulsory use of hand-made or custom-built loads.

Were factory ammunition made available for the .22 Lovell, there would follow overnight a new surge of interest and in proportions which would soon bid fair to supplant the present interest in any rifle cartridge from the .25 Stevens to the .220 Swift. Is it possible that reluctant manufacturers have not recognized that possibility?

This is the only cartridge which has, to my knowledge, sufficient inherent merit to have inspired the publication of a book of praise designed solely to extol its virtues. I am referring to: *The .22-3000 Lovell Cartridge*\* by B. L. Smith of Toronto, Ontario, which confers such a signal honor upon this popular little handload, made by necking

down the .25-20 Single-Shot case to take .22 Hornet bullets or special Sisk bullets in .22 caliber. This factory case is easily converted in the sizing tool which, together with a bullet seater, should go with every .22-Lovell rifle converted by the gunsmith. Such an outfit makes the .22-Lovell a foolproof caliber because it is so simply and easily reloaded for efficient results.

When the .22-3000 Lovell was first announced by Hervey Lovell in *THE AMERICAN RIFLEMAN* for May 1934, Mr. Lovell based his very conservative muzzle-velocity figure of 3000 f.-s. on the 45-grain Hornet bullet. When he had it chrono-

graphed in his 30-inch barrel, of 20-inch pitch, 15.5 grains No. 1204 powder gave this bullet 3146 f.-s. muzzle velocity. R. B. Sisk, the bullet maker, quoted 2980 f.-s. for this same charge behind his 40-grain bullet.

Mr. Sisk also quoted 2700 f.-s. for this powder and his 55-grain Hornet bullet. The weight of charge was 14.2 grains. This we consider equivalent to our favorite load of 17 grains HiVel No. 3 powder, which completely fills the .22 Lovell case. This latter load, we estimated, gave our 54-grain W. & S. bullet the same velocity, or about 2700 f.-s. However, when we recently had it chronographed, in our 28-inch Savage barrel (16-inch pitch), five shots averaged 2850 f.-s. at the muzzle, with a mean variation of only 7 f.-s. from load to load.

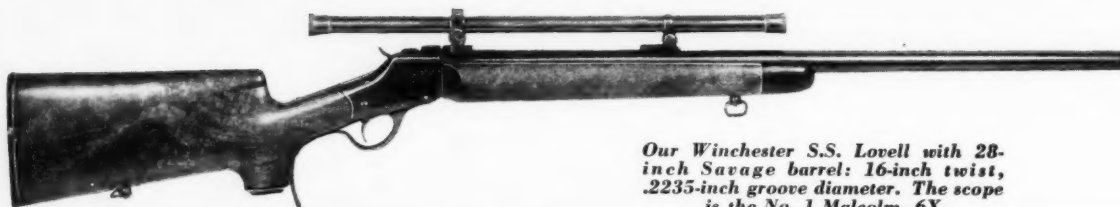
This 54-grain W. & S. bullet fails to expand properly in woodchucks and is better adapted for the .220 Swift cartridge or for turkey and smaller edible game in the .22 Lovell.

*Henry Miller and the first Ontario kill with the 50-grain Lovell bullet, a 170-yard shot*

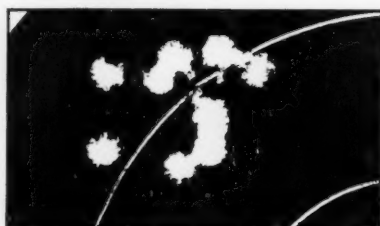


Barr hit a chuck with this bullet which he killed a few minutes later with a second shot. In Canada I hit one through the neck, from standing at 35 yards, and we could see the hair fly on the opposite side, but we failed to get the tail. With this bullet, unsuitable though it proved to be,

\* This book is still available from Mr. Smith at 25 cents per copy.



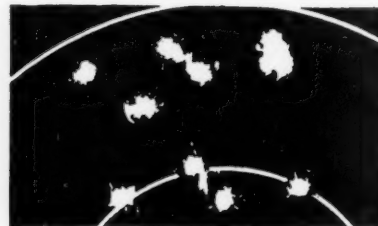
Our Winchester S.S. Lovell with 28-inch Savage barrel: 16-inch twist, .2235-inch groove diameter. The scope is the No. 1 Malcolm, 6X



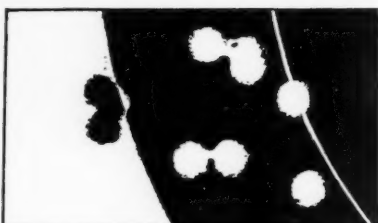
A—Above



B—Below



C—Above



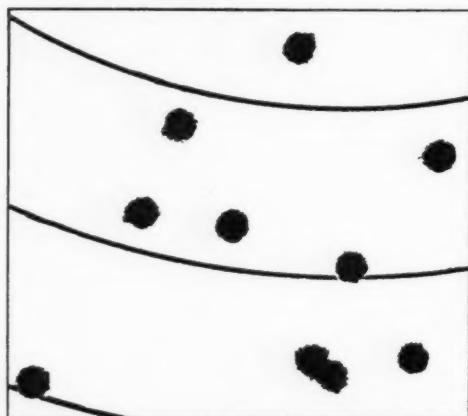
D—Below

A—The Winchester at 100 yards: 17.0 grains HiVel No. 3 behind the Sisk 50-grain Lovell bullet. Center to center, 1.05 inches

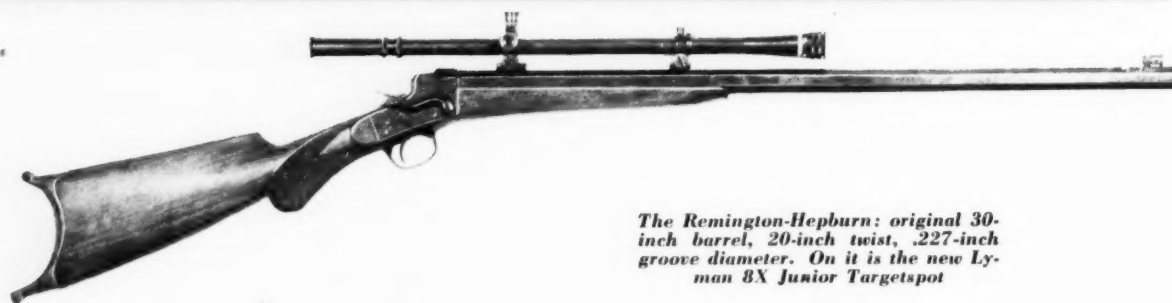
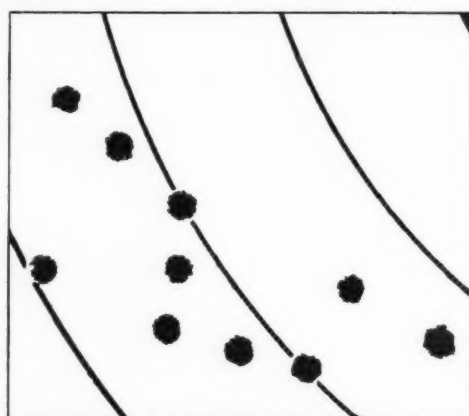
B—The same rifle and load as above but with R.A. 45-grain S.P. From machine rest. Group size 1.22 inches

C—The Winchester at 100 yards: 3.1 grains Unique and the 44-grain Loverin gas-check bullet. Ten in 1.46 inches

D—The Remington-Hepburn, with 16.0 grains I.M.R. 4227 and the 40-grain Sisk Hornet S.P. bullet. Ten measure 1.35 inches



Above: The same rifle and load as at upper left shot into 2.62 inches at 200. Left: The Winchester, with 16.5 grains I.M.R. 4227 and the Sisk 40-grain Express bullet put 10 shots in 2.78 inches at 200. Right: The Remington with the load that gave 1.35 inches at 100 yards gave 2.68 inches at 200, the largest group with this load in the Hepburn



The Remington-Hepburn: original 30-inch barrel, 20-inch twist, .227-inch groove diameter. On it is the new Lyman 8X Junior Targetspot

we never lost a chuck prior to my Canadian venture.

Since my experience with it on Ontario chucks we have quit using this (.2235-inch) 54-grain bullet in the .22 Lovell. I shot one endwise at 60 yards with it and all we got was what was left on the ground; evidence of a solid hit. Even twenty feet of barbed wire, spiralled into his den, failed to reach him. Our record for one typical day included a good kill at 175 yards, but I hit another twice at the same range before I finally dispatched him with a third shot through his head. That made it only two chucks for four shots. Another day we had only one tail for four hits with this same 54-grain bullet. The load is accurate, flat shooting, powerful and gives very little wind drift, but the bullet, constructed for much higher velocities, just does not expand sufficiently.

#### Sisk 50-Grain Is Ideal

There is no need of further search for an ideal bullet in the .22 Lovell, now that the Sisk 50-grain Lovell is available. The average length is .650 inch and the head radius is 6-caliber, with a short, pointed, tip of lead exposed. We use a uniform .224-inch diameter by running our .22 bullets through a die, which diameter makes the sectional density of this one .142. I give it a form factor of .58 and a ballistic coefficient value or figure of .245.

We use the same charge of 17 grains HiVel No. 3 powder behind this bullet in the .22 Lovell. As we seat it the overall length is 2.18 inches and the seating depth, .109 inch. This load chronographed, in our 28-inch barrel, 3025 f.-s. muzzle velocity, and the mean variation was 14 f.-s. from shot to shot. It is very accurate and flat shooting. Over 200 yards the mid-range trajectory height is less than 2 inches.

On paper it figures to drop 1.91 inches from the muzzle to 100 yards and 7.54 inches to 200 yards. Our trajectory tests, however, showed a flatter curve, indicating that either the coefficient or the muzzle-velocity figure is conservative. Our impacts show an average of not more than 1.55 inches drop over 100 yards, and 6.69 to 7.29 inches over 200 yards, both being less than the calculations. The absence of wind deflection is surprising. Tried side by side with the 100-grain bullet in the .270 Winchester it drifted one-half as much, or 3 inches at 200 yards in a cross-wind which blew the 100-grain bullet half a foot.

#### 100% Record On Chucks

This 50-grain load is an excellent killer on such game as woodchucks. In fact we have yet to lose a tail when using it. My first chance to try it came in Virginia last summer. A few weeks earlier I had killed one in the identical spot with the

93-grain Luger bullet driven by 60 grains of I. M. R. 4320 powder in the M-70 Winchester. It paced 215 steps. The 50-grain Lovell bullet killed just as emphatically and the distance again paced 214 long steps.

In Canada we did not lose a chuck when shooting this load. Our first Ontario kill fell to this 50-grain bullet in my .22 Lovell. Henry Miller got this first one at 170 yards. To briefly recount some of our other kills with the .22 Lovell: I got one from sitting at 80 yards, and ditto at 100 yards. Miller got one through a rail fence, sitting, at 175 yards. I got one at 50 yards and we each got one from sitting at 100 yards. Miller then got a good kill from sitting at 125 yards and another at 50 yards. I got one from the car at 85 yards, and Miller got one at 190 yards, a long shot from prone position. Mrs. Miller got one through the head at 50 yards. Henry's next kill was at 130 yards and he stood leaning against a fence post as he aimed. I got one from the car at 115 yards. The average range was only 116 yards, but our kills at 215, 190, 175, 170 and 130 yards were just as positive, and indicated that reasonable distance was no handicap to the effectiveness of this little bullet.

The 6X No. 1 Malcolm scope in C-type top mounts, fastened permanently to the heavy Savage barrel, was zeroed near Washington last winter and has been used all year without change. I carried it in a soft, 10X, horse-hide cover in trains and cars as far West as Ohio, as far North as Ontario and as far East as Massachusetts on that trip. For the 50-grain Lovell bullet it was zeroed to land an inch low at 200 yards and 1.40 inches high at 100 yards, and we held the fine cross hairs right on at all ranges. In our wind deflection tests Miller got fine 3-shot groups, ranging from  $1\frac{1}{2}$  to  $2\frac{1}{2}$  inches at 200 yards, with this bullet. Up there it landed  $1\frac{1}{8}$  inches high at 100 yards and  $1\frac{1}{4}$  inches low at 200 yards.

The high-wall Winchester S.-S. action was barrelled and chambered and nicely stocked with beautiful crotch walnut by Hervey Lovell. The ignition alteration was done by the Niedner Rifle Corporation and has never given us a punctured primer. The four-land Savage barrel of hard steel mikes .2235-inch across the grooves. We use the sizing die and bullet seater which came with the rifle. We prefer Winchester cases, Remington No. 6½ K. B.-N. M. primers, Sisk 50-grain bullets and 17 grains HiVel No. 3 powder, but many other components and combinations give excellent results.

#### Our Best Lovell Loads

Our first 10-shot record was 2.52 inches at 100 yards and 3.82 inches at 200 yards, with the Western 45-grain bullet and 16

grains HiVel No. 3. Many different loads which seemed better were tried in 5-shot groups, one of them grouping into 1.35 inches at 200 yards. This was 15 grains No. 4198 powder behind the same bullet.

Our next 10-shot record was with 17 grains HiVel No. 3. This shot into 1.50 inches at 100 yards and 3.05 inches at 200 yards with the 54-grain W. & S. bullet. This load gave the W. R. A. 46-grain bullet 3.42 inches at 200 yards and the Remington 45-grain bullet 1.30 inches at 100 yards. From machine rest this latter load made 1.22 inches with 10 shots at 100 yards. This same load of powder and the 50-grain Sisk bullet put its 10 shots in 1.05 inches at 100 yards, and at 200 yards, 2.82 and 2.62 inches per 10 shots, which is very good.

16 grains of 4198 powder gave the 50-grain bullet 1.78 inches at 100 yards and 3.39 inches at 200 yards. To agree with our other load this one should be increased to 16.5 grains, judging from its lower impact. 13.5, 14.0 and 14.5 grains of 4227 powder group this 50-grain bullet in 1.55 to 1.70 inches at 100 yards and these loads average 3.34 inches at 200 yards per 10 shots. 16.5 grains 4227 is a heavy load behind the Sisk 40-grain Express bullet, but it grouped 10 shots in 2.78 inches for us at 200 yards in this rifle and did appreciably better in the oversize grooves and 20-inch pitch of another barrel. None of our loads has ever given the slightest extraction trouble.

#### Light Lead-Alloy Loads

In light loads we used the Loverin 44-grain gas-check bullet seated to an overall cartridge length of 1.98 inches. 4.5 grains of No. 80 put 10 shots in 2.76 inches. 3.5 grains Unique put 10 shots in 2.06 inches. 7.5 grains of 2400 powder put 10 shots in 1.85 inches, and 3.1 grains Unique put 10 shots in 1.46 inches. All with R. A. No. 6½ primers and W.R.A. cases, and fired from bench rest at 100 yards.

#### Trying a 14-Inch Twist

We also experimented with another .22 Lovell rifle, having 6-grooves and a 14-inch twist, and destined for Dr. Miller. Of the several tried, the only charge which gave us any satisfactory results in this rifle was 15.0 grains 4198 powder. We used the 55-grain Sisk S.P. bullet and got 10-shot groups of 3.78 and 3.50 inches at 200 yards. When this rifle reached J. B. Smith he also found this to be the most accurate charge, but it dropped its 55-grain bullet to 5 inches below aim at 195 yards from a zero which was an inch high at 100 yards. He had just received some of the new 50-grain bullets about that time and developed a better load with them, consisting of 15.6 grains No. 4198. This bullet dropped just one-half as much at 195 yards, using the same inch-high

zero at 100 yards. This rifle, quite appreciably, changed its angle of departure for our different loads. Also, most peculiarly, it shot fully 4 minutes lower for me than for Barr.

#### An Oversize 20-Inch Twist

We had, in fine condition, an original, .22 W.C.F., Remington-Hepburn, altered to .22 Hornet by R. F. Sedgley. From rest, with our 10X Unertl scope sight, this handled the old Winchester Hornet ammunition fairly well. For fifty shots at 100 yards, five 10-shot groups averaged 1.77 inches. Our best Hornet handloads averaged the same, or 1.73 inches, with 35-grain and 40-grain Sisk bullets. The best load was 11.5 grains of 4227 behind the Sisk 40-grain S.P. bullet, which put 10 shots in 1.43 inches.

This rifle has a heavy octagon barrel, 30 inches long, which measures 15/16 inch across the flats and a full inch across the corners. The groove diameter is .227 inch, and the pitch, one turn in 20 inches. However, we had Hervey Lovell chamber it for the .22-Lovell cartridge and fit it with a new firing pin of vanadium-alloy steel. In spite of the odd groove-diameter it has been quite satisfactory and does as good (or better) grouping with .224-inch bullets as with the better-fitting .228-inch bullets. It has 6 grooves.

The best it has done with Sisk .228-inch bullets is 10 shots in 2.02 inches at 100 yards and in 3.79 inches at 200 yards. The loads were 15.0 and 15.5 grains 4227 powder behind the 35-grain bullet of proper gas-sealing diameter. Our .224-inch bullets were nearly .004-inch too small for the barrel, but with these smaller bullets in the same 35-grain weight we had one of the smallest 200-yard groups we have ever obtained with any rifle. The 10 shots measured 2.35 inches and the load was 16.5 grains 4227 powder. 16 grains grouped the 40-grain S.P. bullet in 2.68 inches, and the "gosh-awful" charge of 17 grains 4227 grouped the 40-grain Express bullet in 2.48 inches. All are 10-shot groups at 200 yards. We went up to 16.0 grains No. 2400 behind this bullet and got 10 shots in 3.54 inches at 200 yards.

15.0 grains No. 4227 behind the W.R.A. 46-grain bullet grouped into 3.22 inches, and 15 to 16.0 grains behind the 50-grain Sisk bullet gave 10-shot groups of 3.37 and 3.72 inches at 200 yards. The 55-grain Sisk S.P. bullet gave next to the smallest 10-shot group at 100 yards, or 1.61 inches. The charge was 17 grains HiVel No. 3. The smallest 100-yard group was 1.35 inches, made with 16.0 grains No. 4227 behind the Sisk 40-grain S.P. bullet.

Excepting the very first two loads mentioned for .228-inch bullets, these bullets were all uniformly sized to .224-inch diam-

eter. We seated the 35-grain and 40-grain S.P. bullets to an overall of 2.02 inches and the 40-grain Express bullets to make a cartridge length of 2.188 inches in W.R.A. cases. The .228-inch bullets were loaded in thinner Remington cases and a shorter seated length of 1.977 inches was used.

These experiences with greatly varying components and bores, in different rifles of this caliber, together with the many substantiating reports from others which I have received or read, convinces me that the .22-Lovell caliber or cartridge is the least sensitive or vulnerable and the most nearly foolproof of any practical small-game cartridge which could be named. It is even easier to load than the simple Hornet, practically as economical and twice as effective on the basis of comparative power, trajectory, wind drift and practical accuracy beyond 125 yards.

#### Sisk 50-Grain At 3000 f.s.

Our more or less standardized load in the present .22 Lovell case is 17 grains HiVel No. 3 powder behind the Sisk 50-grain Lovell bullet, previously described. This and equivalent loads, such as 14.5 grains No. 1204, or 14.0 grains No. 4227, or 16.5 grains No. 4198 should develop 3000 f.s. at the muzzle of a 24-inch barrel having a 16-inch twist and a .2235-inch groove diameter.

A 14-inch twist would require half-a-grain less powder, and a 20-inch twist, that much more. Likewise, a .224-inch groove diameter (all .224-inch bullets) would require one-half grain more powder for equivalent results, and by the same reasoning a .2225-inch groove-diameter would require a reduction of one grain weight in the powder charge. On this basis the 28-inch barrel would give our chronographed figure of 3025 f.s., and a 30-inch barrel would give 3050 f.s. with this 50-grain bullet.

With this load the target scope or small-game scope could be zeroed right on at 200 yards and from 1/2 inch to 2 inches high at 100 yards according to the distance between bore and scope. The higher the scope the flatter the apparent trajectory at midrange. With one load and scope we were right on at 200 yards and about 1/4-inch above aim at 100 yards. This 46-grain load had a total drop of 6.3 inches over 200 yards, and the 50-grain bullet showed 6.69 inches drop. A fine compromise zero with a very low scope would be to let the group form 1 or 1 1/4 inches low at 200 yards and 1 1/2 to 1 1/2 inches high at 100 yards for a very practical small-game trajectory.

#### A Consistently Filled Case

While we have had no indications of excessive pressures even with our heaviest loads, these very same loads might con-

ceivably prove to be extreme in some other rifle. In no case should any maximum load be arbitrarily adopted but instead carefully adapted. Always, such loads should be carefully developed, beginning at some lower level. With this understanding, I feel safe in relating an experience with the .22 Lovell cartridge which serves to make its case unique. Never before its advent had we been able to literally fill any given case with so many different propellants.

For example, even with the least-well-adapted No. 2400 powder we filled the .22-Lovell case to the neck behind the 35-grain bullet. With No. 4227, the next ranking in potency, we filled the case to the base of the 40-grain bullet, and also level full. No. 1204 was also loaded full, flush with the mouth of the .22-Lovell case. Our load of HiVel No. 3 powder fills the case and is compressed by all bullets up to the 54-grain. With I.M.R. No. 4198 the shell is also completely filled and the powder is compressed by any 55-grain bullet. The case could also be completely filled to the base of any lead-alloy gas-check bullet with black-powder, King's Semi-smokeless or the old No. 1 rifle smokeless, which was a true bulk-for-bulk powder.

Such an efficient case should not be altered in capacity or changed in dimensions without definite proof of an appreciable improvement established only through exhaustive tests. The .22-Lovell case has been so satisfactory as is, there has been no real interest in improving it until quite recently. Some shooters, who were not satisfied with the excellent Hornet cartridge managed to appreciably improve that cartridge by giving it greater capacity through the expedient of a short abrupt shoulder. Notable among these improved-Hornet jobs were those managed by Zoerb and Donaldson. Some of the extensive publicity accorded this good little 150-yard small-game cartridge was, in fact, won by certain, prominent, special jobs or by special bullets which reflected much unmerited credit upon the standard factory Hornet cartridge, over and above its just record.

Now it is possible that by the same expedient the .22-Lovell can be improved, and even lifted the short step into the power class of the .219 Zipper or of that fine .22 Niedner Magnum. Any practical change, however, must be a relatively minor one, involving an additional capacity of only a grain or two of powder. The case length, neck diameter and body taper must be left undisturbed in protection of all the tools, gadgets and rifles in .22-Lovell caliber already in use. This would permit only a slightly more abrupt shoulder, moved forward and taken out of no other section than the present neck-length. Such a change should have a considerable



effect on combustion conditions and possibly might result in making No. 4198 the ideal propellant for the cartridge, in which it now closely trails HiVel No. 3 and I.M.R. 4227 powders.

Thorough test alone can determine whether such a change in shoulder shape and powder capacity will give sufficient improvement in interior and exterior ballistics to recommend its adoption. Should it eventually become so established or be adopted, it would be a simple matter to alter all currently used outfits, and those then extant, in the .22-Lovell caliber. The sole requirement would be to run the altered chambering reamer, if and when adopted, into the present chamber of the bullet seater and shell sizer as well as that of the rifle. Or we can continue using our present equipment as long as .25-20 Single-Shot cases are manufactured. Rumors to the contrary notwithstanding, components for .22-Lovell fans will be made indefinitely and remain available for at least our generation.

#### HARD-STEEL FACTORY BARRELS

**B**ESIDES the standard .30-caliber Service barrels and .22 Springfield barrels of Ordnance steel which are available to N.R.A. members through the D.C.M. at about \$8.00 and \$12.00, respectively, manufactured rifle barrels of hard steel suitable for jacketed bullets are available through the Savage Arms Corporation, Utica, N. Y., and the Winchester Repeating Arms Company, New Haven, Conn.

#### Savage High-Power Barrels

Barrels of Savage make are limited in length to the longest standard blank length, per caliber and rifle model as listed in their arms catalog. Thus the .30 caliber barrel (.30-30 blanks) are quoted 22 inches long and 1-1/16 inches thick at \$10.00. The maximum blank thickness is 1-1/16 inches, unfinished. Such blanks are also available in .22 caliber and .25 caliber at about the same price. They are bored and rifled but unturned, unfinished and not chambered. Savage uses a high-power smokeless steel similar to that of Remington and Springfield.

#### Winchester-Proof-Steel Barrels

Winchester heavy barrel blanks are available at \$25.00 each in .220, .250, .257, .270, 7-mm. and .300 caliber. These barrels are 30-inches long, tapered from 1 1/4 inches at the breech to 7/8 inch at the muzzle. There is a straight 3-inch, cylindrical section, measuring 1.125 inches, at the breech, with a taper of .014 inch per inch to the muzzle, which measures .875 inch. The heavy .22 Hornet blanks are 28 3/8 inches long and cost \$20.00. They measure 1.16 inches at the breech and

taper to .906 inch at the muzzle. Both the above are furnished bored and rifled with standard Winchester rifling according to caliber, but they are not chambered and have no shank or thread.

#### Factory Barrel Replacements

Besides the barrels sold separately as components, there are available as factory replacements all the standard barrels of different weight, length, contour and caliber. For obtaining these, quotations and shipping instructions must be first obtained directly from the repair division of the particular maker involved, as arrangement must be made for shipping the rifle to the factory for the necessary work of fitting and adjustment. It is also possible in special cases or certain instances, sometimes, to arrange to have a barrel cut off set back and rechambered in order to remove the effects of throat erosion, when such methods are deemed practical by the factory. Such rechambering jobs will range from \$6.00 upwards.

#### Winchester Factory-fitted Barrels

In order to get some idea as to the probable cost of such barrel-replacement work, I wrote to Mr. R. E. Martin of the Winchester Service Division, and shall quote from his reply:

"Replying to your letter of October 12 regarding quotations on replacing barrels for Model-54 and Model-70 rifles. On the Model-54 the standard weight barrel is \$10.00, the heavy \$20.00 and the Snipers \$30.00. In replacing the standard weight barrel with either the heavy or the Snipers-type barrel on the Model-54, this also requires a new butt stock, wood only, for which the charge is \$17.50 on the heavy and \$32.50 on the Snipers.

"On the Model-70 the standard barrel is \$15.00. The heavy barrel is \$20.00 and the bull barrel is \$30.00. In replacing standard-weight barrels with either a heavy or bull barrel it is also necessary to fit new butt stocks, wood only, on the Model-70. For these the charge is \$17.50 for either the heavy or the bull type."

#### MISCELLANEOUS

##### Mossberg Spotting Scope and Stand.

Although they have been seen frequently on the firing line, it was only recently that we had the opportunity to use one of them. The 20X single-draw-tube scope with about a 38-mm. objective was found satisfactory for spotting on indoor ranges and 100 yards outdoors; also at 200 yards except in dark, unfavorable light conditions. The excellent scope stand has convenient adjustments for centering the scope on the target.

Both the Spotshot scope and Model-A stand are finished in durable black crinkle. The chrome-plated draw tube of the scope is made with micrometer adjustment for accurate focusing. With the draw tube extended the scope is 17 3/8 inches long. It closes to 13 1/4 inches, including the objective and ocular lens covers.

The Model-A stand permits elevating

the scope from about 9 to 15 inches above the ground. A handy thumb screw is used for vertical adjustment while a knurled screw in the V-rest is loosened to rotate the scope for horizontal movement. The knurled screw also permits removal of the V-rest from the aluminum staff. The stand folds into a small, handy bundle 9 inches long which takes up very little space in the shooting kit.

Both the scope and stand sell for about \$25.00, including a 3 x 6 x 14-inch leather carrying case, which is made with two separate compartments, one for the scope and the other for the stand. The complete outfit is neat and handy to carry by the long leather shoulder strap. The scope compartment will accept the V-rest also, when, for convenience, it is left strapped to the scope.

**Peters Belted Bullets** which proved very accurate in an M-70 Winchester in .30-'06 caliber also give satisfactory results in the .348 Winchester, .300 Savage, .30 Remington and .30-40 Krag rifles. The 225-grain belted bullet in the Krag gives 2210 f.-s. muzzle velocity and 2441 ft.-lbs. muzzle energy. We tried them in two Krag rifles, both with barrels cut to 22 inches.

In one of these rifles, using the Rice bolt sleeve sight and King red bead front one 100-yard bench rest group measured 2.90 inches, with 9 shots in 2.25 inches. Using a scope sight on the same rifle our 10-shot groups ran 2.68 inches with 9 in 2.18, and 2.84 inches with 9 shots going into 2.32 inches. The only 10 shots tried in the other Krag using a 29-S Weaver scope grouped in 2.91 inches.

In the .30 Remington caliber the 180-grain belted bullet leaves the muzzle at 2100 f.-s. with 1760 ft.-lbs. energy. The ballistics are the same for the .30-30 W.C.F. cartridge. The Peters cartridges in our .30-S Remington made 10-shot groups of 2.55 inches at 100 yards using a 3X Weaver scope in Albree's Monomount. Several 5-shot groups measured 1.48 to 1.82 inches.

The latest belted bullets we have tried are the 210-grain for the .348 Winchester and the 200-grain for the .300 Savage, but as yet we have not seen the factory ballistics for these cartridges. The .348 was tried on tough, 1/4-inch steel, the bullet going through one thickness leaving a 1/2-inch hole and making a deep dent on the second thickness of the circular piece of steel. The penetration was equally as good as that of the heavy, soft-point bullet of a .405 Winchester. The only difference noted between the two was the larger (5/8-inch) hole and the greater area of the crater on the second piece of steel, which was caused by the larger diameter of the .405 bullet.

Using a new 8X Lyman Targetspot Junior on the M-71 Winchester our first

10-shot group was 3.27 inches with 8 in 1.98 inches. The second ten grouped in 3.02 inches with 9 in 2.35 inches. The belted ammunition was later tried at 80 yards from bench rest using the factory metallic sights. Because the shooter called two bad shots which were distinctly out of the group only 8 shots were in a normal group of 3.50 inches.

In a Model-99T, Featherweight rifle in .300 Savage caliber the 200-grain belted bullet grouped in 2.58 inches with 9 in 1.86 inches. Another 10 shots grouped in 1.98 inches at 100 yards prone, rest, using the "Less Profanity" muzzle rest. Later at the 80-yard range we had a 10-shot group of 2.35 inches. A 29-S Weaver scope in low-model S7 mount was used on the Savage rifle. There was no appreciable difference in recoil and muzzle blast between the M-71 and the light Savage when using the belted-bullet ammunition.

The heavy belted bullets are designed for proper nose expansion with a heavy belt back of the point which prevents body and base disintegration. They are intended for deep penetration on heavy game and may not be as effective on lighter game, like deer, sheep and antelope, as the same bullet in .30-'06 caliber.

**Marlin's No. 2 Scope** sight is in appearance much like the Sears Ranger and Wollensak. It is furnished with two steel, target-type ring mounts and case-hardened dovetail base blocks of standard size. The rear mount has a four-point suspension and micrometer, click adjustments. The scope is free to slide in the front mount and it is made to stand the recoil of big-caliber rifles.

Our first experience with one of the No. 2 "Clearfield" scopes on a Krag resulted in a chipped eye lens, which we discovered was caused by the employment of three indentations in the eye-lens cell designed for supporting the eye lens. This has since been corrected by the Marlin Company by using a complete circular ring for a more solid support of the eye lens. This is mentioned for the benefit of those who might have these scopes with improper lens support, which can be determined by removing the threaded cap and inspecting the inner eye piece cell. These scopes should not be used on rifles which develop any considerable recoil until they have been returned to the factory to be fitted with the proper lens holder. After the lens cell was replaced we had no further trouble with the scope on the same Krag rifle.

Optically, the No. 2 scope is very good, with a clear, sharp image for a scope that sells for only \$7.35. In a uniform scope test, which we have recently adopted, it placed second to none among all of the low-cost scopes which we have so tried for definite error of aim.

The ring-type target mount does not

permit the (non-essential) feature of using metallic sights with the scope mounted on the rifle, although the scope line of sight is 1-9/16 inches above the bore of our Krag. The adjustment thimbles of the rear mount are graduated with 25 white lines, each of which represents a 1/4-minute click.

Provision is made in the 3/4-inch, brass, scope tube for focusing and adjusting the medium-fine cross-hair reticule. The eye lens is not adjustable for individual focus. The cost of the scope includes tap and drill with mounting instructions.

**Albree's Orthoptic Spectacles.** Although we have used a number of gadgets which are intended to aid aged eyes, or those afflicted with nearsightedness, astigmatism, etc., we have not before seen any like those sent in by G. Norman Albree, 110 Milk Street, Boston, Mass. Instead of having the customary single-aperture disc for the shooting-glass lens or spectacle frame, he uses flat, thin sheets of aluminum which are perforated with a whole series of small holes. These aluminum discs replace the spectacle lenses.

The principal reason for a number of small apertures is that one of them is always in the right place, regardless of varying conditions and shooting positions. One drawback to these spectacles is that they can be used satisfactorily only in bright light. We found them not at all practical for use on indoor ranges.

To eliminate the complications of fitting individual shooters, the material is sold in sheets intended to be trimmed by the purchaser to fit any size or shape of frames. The material sells for 25¢ per set, and any cheap spectacle frames may be used.

Although some shooters seem to get better results without orthoptic gadgets, others may find them helpful, especially those who are bothered with impaired accommodation which blurs target, sights or both. While we could not improve our scores with the Albree spectacles, shooters so afflicted may find in them an improvement. At the very reasonable cost they would at least be worth a trial.

**New Model-63 Globe Sight.** The Redfield Gun Sight Corporation, 3315 Gilpin St., Denver, Colorado, recently sent us one of their detachable globe front sights brought out for the new M-52 Winchester target rifle. It is also adaptable to the M-37 Remington, or it may be used on any standard dove-tail scope base, like the new Lyman or Fecker.

The globe of the new sight is made 1/4-inch longer than that of the former Redfield. The face of the sight is matted to prevent light-reflection and glare. The sight slips on the base block and is locked in the same manner as scope mounts. It sells for \$4.00 complete with attaching

base and screws, or \$3.50 without base. The usual eight inserts are furnished, including an aperture for the popular 50-meter target. The convenient method of changing inserts in other Redfield globe sights is also used in the Model-63.

**New GEM Loading Tool.** A. D. Potter of the Potter Engineering Company, 632 Scoville Ave., Syracuse, N. Y., recently sent in one of the reloading tools which he has designed to sell for about one half the cost of his excellent Duplex Reloading Machine. Like the Duplex, the GEM is a vertical straight-line tool with a sliding die holder and a powerful lever-operated toggle arm. Strength, rigidity and perfect die alignment are assured by the long, 3 3/4-inch bearing surface of the die holder on the 7/8-inch vertical shaft.

The new tool is somewhat slower than the Duplex because the resizing-and-decapping operation and bullet seating are two separate operations, as the die holder is arranged to hold but one die at a time. The adjustable dies, which are interchangeable with those used in the Duplex, may be removed or replaced without losing their adjustments. Repriming on the sample tool is a separate operation, but we have been informed by Mr. Potter that the priming punch is now being made adjustable in order to permit repriming at the same time cases are decapped and resized.

The priming setup is located on the left side of the tool. A sized case is placed on a steel post located in the 6-inch circular cast base. The repriming punch, located in the die holder, as mentioned, is to be adjustable for seating the primer to the correct depth while another case is being decapped and resized. Provision is made for the used primers to drop through a hole in the shell holder and base of the tool. Rimless cases are placed over the priming post, the latter being made hollow to accept rimmed cases inside.

The GEM tool is adaptable to more than one caliber, both rifle and pistol. The necessary parts for other calibers are sizing dies, bullet seating dies, shell head holders and priming posts. The tool is designed for easy removal or replacement of the dies and other necessary parts.

Because of its adaptability to more than one caliber, the sturdy construction and reasonable cost, the GEM should appeal to the home reloader. It was not designed for speed but to be a reliable tool at reasonable cost. The Duplex reloader is probably twice as fast as the smaller tool, but the latter is equally as good in performance, and apparently capable of turning out the same fine-quality handloads.

The sample tool was set up for reloading .45 A.C.P. cartridges, which caliber offers a severe test for any tool. It performed satisfactorily and the 11-inch handle provided ample power for full-

length sizing of the thick brass used in the construction of .45 A.C.P. cases. After using the tool for a while and becoming familiar with it at least 150, and possibly more, reloads can be completed from start to finish in an hour. The tool sells for \$17.50 including dies complete for one caliber.

**Distinctive Shooting Awards** is an apt title for the new medal service advertised by V. H. Blackinton & Co., through Gene Mitchell, P.O. Box 261, Ben Franklin Station, Washington, D. C. Gene showed me some new medals in distinctive designs which were veritable "knockouts". I'd like to win some of them, myself. All clubs, organizations or individuals who are interested in medals and other merit awards of new beauty and different design should take advantage of the artist and sculptor service available through this firm at Attleboro Falls, Mass. A 24-page illustrated catalog is available for the asking. I was also impressed by the very accurate and faithful reproductions of Colt pistols in miniature gold, which Gene showed me.

**The .270-W 100-Grain Bullet** is now quoted at 3540 f.-s. muzzle velocity as based on the ballistics tables attached to the British Textbook of 1909, in place of the original 3630 f.-s. m.v. quotation which was based on the McFarland Table, I am informed by Merton A. Robinson, ballistic engineer for Winchester. The adoption of the tables, now used, by the S.A.A.M.I. is responsible. The result is a remaining velocity only 73 f.-s. lower at 100 yards and only 25 f.-s. lower than the former figures for 500 yards. There has been no change in the load, and in practical shooting the actual trajectory will be as indicated in my story as published in *THE AMERICAN RIFLEMAN* for November. The midrange trajectory height is quoted as 1.7 inches over 200 yards and 4.3 inches for 300 yards.

**Lexol Is a Quick Softener** of any and all leather goods. It is made by The Martin Dennis Company, 859 Summer Avenue, Newark, N. J. It is as thin as water and penetrates old leather like a solvent, but has the odor of pure neatsfoot oil. Apparently it is that standard leather-treatment dissolved for convenient application and rapid absorption. On old slings, shoes, belts, bags, puttees and boots it worked well and was more convenient than anything tried before.

**Kersarge Revolver Stocks** are in design similar to those made by Walter Roper, but we are informed by Charles B. Wendell, Jr., director of the Kersarge Woodcraft Co., Warner, N. H., that he has been making them for himself and friends for the past four years. Apparently Mr. Wendell and Mr. Roper had the same ideas

as to including a filler block in revolver stocks. The noticeable difference in the two is that the Kersarge stocks are thinner than even the thin-model Roper. Also the fine, carved, oak-leaf pattern used in place of checkering on the Kersarge stocks.

The carving indentations are large enough to form comfortable grooves for the fingers, which help to maintain a firm, uniform grip for each and every shot. Even on a light .38 Special revolver which bucks considerably from recoil, we had no trouble with the stocks slipping or shifting in our hands. The corners of the oak-leaf carving are rounded to prevent injury to the hand from the recoil of heavy caliber revolvers. The carving also presents a pleasing appearance on the smooth, dense walnut stocks.

**Improved Blue-Kit Package.** Because several of the prepared chemicals in the Blue-Kit (bluing chemicals) absorbed sufficient moisture to dissolve their gelatin capsules, a change in packing was necessary. McDonnell-Goodwin, whose new address is, New Hope, Pennsylvania, recently sent us one of their Blue-Kits with the solution chemicals packed in small glass ampoules. When a bluing solution is being made up it is only necessary to break the tip of the ampoules and rinse out the contents.

**New Address for Zeppelin.** The Zeppelin Arms Company have asked us to notify N.R.A. members of their change of address. Their store and offices are now located at 1472 East Market St., Akron, Ohio. They stated that any considerable delay in their shipments was caused by mail going to their former address instead of their present location. We were pleased to learn that the capable Mr. F. L. Spencer, Secretary of The Ohio Rifle & Pistol Association, has recently been appointed General Manager of the company.

**Ivory, Buffalo Horn and Other Materials** are now available in synthetic form, through James E. Moon, the bullet-lubricant man of 782 Amsterdam Avenue, New York City. It is very faithful in imitation as to color and texture, but I would prefer this Moon material to the genuine, because it will not chip or crack and costs very little. The Moon ivory is fine for handgun stocks because it is tacky and feels secure without checkering. It can be checkered if desired, of course. Mr. Moon says it is very tough stuff and should be worked down by power tools. He has had many requests for stocks and grips from those who have seen this attractive material.

Mr. Moon is responsible for its development, having supplied the genuine material for duplication and instructions to the manufacturer on how to copy it. By this time he has added the pearl color and is

probably working on a stag-horn imitation. The blocks and rods, oval and round, can be obtained in shapes and sizes suitable for forestock tips, pistol grip caps, inlays, knife handles, buttplates, flat pistol stocks and revolver grips. I doubt that anyone could do better.

**Hudson Sporting Goods Company** has an interesting ammunition list which just reached us on closing date. It is the first one received, and we are glad to have it, because we find in it many ammunition bargains and items which we can use. In addition to modern stuff, there is available some obsolete loads, government issues and imported ammunition. 6800 .303 British Cordite cartridges are listed at \$3.75 per hundred. There are also imported loads for the .25 A.C.P., .30 Luger, 7-mm., 7.65-mm., 8-mm., 9-mm., .333 Jeffrey and 41 Italian Vetterli, of British, German, Belgian and Austrian source.

Among the government issues are some Gallery-Practice, 150-grain, lead-bullet loads in .30-'06 caliber, and some .38 Long Colt smokeless. In odds and ends there are 5800 .22 W.C.F. blackpowder, 5800 .25 Stevens Short blackpowder, 6000 .25-25 Stevens blackpowder, 6000 .25-20 Single Shot blackpowder, short range loads for the .25-36 Marlin and .303 Savage, 1800 Peters blanks for the .32-20 W.C.F., 800 .38-70 smokeless, .44 Bull Dog and .44 Webley, and 1400 .45 S&W. Schofield blackpowder.

There are also some empty cases in .303 Savage caliber, some U.S.A. musket caps and 2000 of the obsolete .30-'03 long-neck Springfield cartridges, 4,700 1¼-inch Army slings, 650 Mills Woven cartridge belts in .25 to .50 caliber, 350 pistol holsters and 225 carbine scabbards. The prices are reasonable on all the above. In fact, they run from moderate to low.

**New 3-Inch Winchester 12-Gauge** loads are announced for the M-12 Heavy Duck Gun, as follows: 4 drams equivalent, 1¾ ounces BB, 2, 4, 5, 6, 7 or 7½ chilled shot, and the equivalent of 4¾ drams with 1¾ ounces of the same shot sizes except 7 and 7½c.

**New 8X Junior Targetspot.** The Lyman Gun Sight Corporation are now in production on a new scope which completes their line of excellent target scopes. The Junior Targetspot presumably will replace the well-known 5A scope. There are now three models to choose from. These are: the marvelous Super-Targetspot with 34-mm. objective in 10, 12 and 15X, the Targetspot with 28-mm. objective in 8 and 10X and the new Junior Targetspot with 19-mm. objective in 6 and 8X. All three models are supplied with the new three-point, suspension-type, micrometer mounts.

Except for the smaller objective end and the shorter (21-inch) overall length, the



# This Christmas GIVE CROFT'S



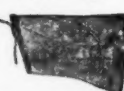
Send actual chest measurements and sleeve length.

**CROFT'S SHOOTING COATS**  
The Camp Richie \$4.50  
The Dewar \$5.15  
The 9 v Possible \$6.00  
The Camp Perry \$7.85

**Croft's Leather Gun Case. State make and model of gun. Price \$6.50**

FREE catalog with samples of materials used upon request.

**CROFT'S open end shooting glove**  
Price \$1.50  
Send outline of hand



**H. & D. FOLSOM ARMS**  
312 BROADWAY NEW YORK, N. Y.

## ANY CHOKE YOU NEED —INSTANTLY!

The NEW SUPER POLY CHOKE NOW \$16!

Ask for folder AR



Fit the pattern to your shooting with a **POLY CHOKE!** Instantly adjusted with the fingers to any choke wanted. No loose pieces, no change in center of impact.

**THE POLY CHOKE CO.**  
FRANKLIN AVE. HARTFORD, CONN.

## NOSKE RIFLE TELESCOPES



For aiming efficiency **LOW POSITION IS VITAL**  
The only practical big game hunting scope which can be mounted in low position, as illustrated above, on unaltered Springfield, Winchester and Mauser bolt actions. Internal adjustments.

Send 3 cents postage for complete catalog.  
**R. NOSKE, San Carlos, Calif.**



## RIG for Christmas

Give Complete Rust Protection

Give your shooter friends RIG for Christmas. They need RIG and will appreciate it. Used inside and out on rifles, pistols, shotguns. Tube 25c, can 60c, at your dealer or write **RUST INHIBITING PRODUCTS** 5830-R Stony Island Ave., Chi.

**RIG**  
FREE FOLDER

Complete protection even in moist tropical climates and salt sea air. RIG stops rust when others fail. Test results by F. C. Nema, M. H. Goode, E. C. Crossman, F. A. Curtis, P. Sharpe, C. S. Landis, Y. F. Whelan, furnished free.

We wish you a MERRY CHRISTMAS and a Rustless 1938

## A One-Inch Display "Ad"

You can put this space to work for you regularly, at a very reasonable cost—only \$10.50 per month for 12 consecutive insertions. Rates are slightly higher on an every-other-month schedule, or for single insertions. The circulation of THE AMERICAN RIFLEMAN is now over 60,000 copies monthly—and increasing steadily. We are producing splendid results for dozens of advertisers who use this size space right along. Send us "copy" instructions now, for the next issue.

pleased to note that it was possible to aim accurately after it became dark enough to distinctly see the rifle's muzzle flash. Under the same conditions it was impossible to quarter the bull accurately even with a small 3-power hunting scope. The new scope will sell for approximately \$45.00 complete with hardened bases and tapers and drill.

## ATTENTION "LESS-PROFANITY" USERS

**SLING** keepers of this brand as mailed are set to fit the average strap. However, they can be adjusted *while on the strap* by prying or squeezing the loop member to suit thicker or thinner leather.

## Letters to the Dope Bag

### HOW TO APPLY MODERN GREASES

I HAVE noted with interest your recommendations for cleaning my .30-'06 rifle. I understand that Rig is a grease. What sort of a tip do you use for swabbing with any grease? All of the American types which I have used are extremely crude. While they can be used fairly satisfactorily with oil, they are all a messy proposition when used with grease. If you have anything better for swabbing with grease I would like to know what it is.

Is there any advantage or disadvantage in using anti-rust ropes? If I saturated a Marble's rope with Rig would it be good protection to the bore of the barrel? It would be convenient to use after wiping the barrel dry. Drawing it through the barrel before shooting removes excessive grease, while some tips that I have used with grease leave the barrel in such condition that it must be cleaned out before shooting.—C. C. H.

**Answer:** I have tried Marble's anti-rust ropes with various preparations and never learned to like them. Perhaps they would prove more reliable with our current improved greases, such as anhydrous Lanolin, Jaymac gun grease, Rig or Gunslick gun grease. Most of these effective greases have the quality of absorbing moisture. You merely increase their load when you use an Anti-Rust rope, which in itself may absorb moisture and communicate it to the bore. A full coating over the surface of the bore is far more effective.

It can be evenly and thoroughly applied by any of several methods. Because I happen to have one, I use the Belding & Mull slotted oiling tip at home, for applying Rig to rifle and shotgun barrels. This tip has two slots holding two patches in opposite direction or at right angles to one another. It can also be applied with a jag-end tip and a cloth patch, providing a sub-size tip is used or a sub-size cleaning patch. The best method, however, is to use a standard swab as furnished with shotgun cleaners and made

Junior Targetspot is, in appearance and design, very similar to the Targetspot and Super-Targetspot. The same range-focusing system, with graduated adjusting sleeve, is used on the short, enlarged, objective-end of the new scope.

True to the new Targetspot line, the Junior scope is, as near as can be determined, optically perfect. The amazingly clear, sharp, image and fine crosshair makes the scope ideal for target, small-game and long-range varmint shooting. The small, neat objective-end of the scope makes it desirable for use on hunting rifles. For the first two purposes it would be preferable in 6X, which gives a field of 16 feet at 100 yards. The 8X reduces the field to 14 feet, and is better adapted for long-range shooting.

Scope No. 9 was sent in for our examination and with it we had practically no error of aim in our triangulation test. Being enthused over its optical qualities and realizing its adaptability for use on target and hunting rifles we were determined to see if it would withstand recoil.

For this purpose we used it on an M-71 Winchester in .348 caliber. After firing more than 50 shots there was no apparent damage to the scope, which indicates that it will withstand the recoil of our heavy caliber rifles. There is some doubt whether the bevelled, hardened collars of the mount clamping-screw will withstand such constant strain, as well.

While using this 8-power scope very late one evening we were surprised and



**Colt .22 Woodsman \$27.50**



Built for Hi-Speed ammunition. Choice of 4 1/4" or 6 1/2" barrel; 10 shot; weight 28 oz. Adjustable target sights. Add 60¢ for express. Send for Free Folder. **GART BROS. SPORTING GOODS CO.** 1643 Larimer St., Denver, Colo.

of wool yarn. Another method is to draw a flannel pouch over an ordinary cleaner. You could also fashion a ball of yarn and saturate it with Rig for a very effective and thorough application. In small bores a small swab of cotton is the best method. In handguns we prefer to use a bristle brush for this purpose.

#### LIKES UNION MOUNT

SINCE receiving your letter I have continued my experiments with the W. C. Co., 30-30, 150-grain bullet, and have obtained some excellent results. I sent to Western for 100, 180-grain, open-point, boat-tail bullets, and as I wanted to load them with 46 grains of HiVel No. 2, I left the measure the same for ten rounds of the 150-grain .30-30 bullet. I shot them in the Enfield with the 30-S barrel, 4X Noske scope and Union mount, using a sand-bag fore-end rest, and got a group that tickled me a lot. I am sending a copy in this letter, copied exactly from the original target. The range was 100 yards, no wind, but a glaring sun from 10 o'clock.

The 180-grain load pleased me a lot, as I shot two 5-shot groups, one measuring 1-3/16 and the other 1 5/8 inches. These were measured with an ordinary scale, so your measurements might vary some.

After inspecting the copy of the group I am sending, I would like your opinion of how this group compares with a match rifle, such as the Model-70 Snipers' rifle. I am not as familiar with such things as I might be, as my work does not allow me to have the association with shooters that I would like to have. However, I have a gun-crank friend here and our dabbling is usually done together.

I seem to have some trouble with my Ideal measure when throwing charges of HiVel No. 2. No matter how careful I am, charges will vary a quarter-grain, with the D-E-and-F scale, or the D-and-E. By the way, the target I am sending was made with 150-grain load and charges just as the Ideal threw them. I have 30 rounds loaded now that I weighed individually, as accurately as a Pacific scale will weigh, and I am going to try them at my first opportunity.

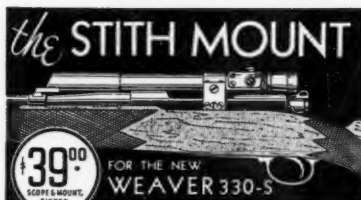
Although I have belonged to the N. R. A. for some years, I never realized there was a service to be had like the service your department offers, and I certainly appreciate your prompt reply.

I have used the Union scope mount for two years, and like it a lot. It seems to be plenty rugged, and have never had any trouble with the rifle changing its zero after removing the scope, although I don't remove it unless absolutely necessary. I can't understand why this mount doesn't get more of a play from shooters than it does. For the money, I don't think it can be beaten, and for a fellow who has to watch his nickels, the difference between \$12.00 and \$20.00 isn't to be sneezed at.—**ROYAL R. BAGON.**

**Answer:** Many thanks for your letter of September 5 and all the interesting dope. Your comments on the Union mounts are greatly appreciated and also the dope on your handloads.

I would say that you are getting unusual accuracy and uniformity with your Ideal

**the STITH MOUNT**



**39.00** FOR THE NEW **WEAVER 330-S**

● So low that the scope tube barely clears the receiver.  
● Eight inches between bases gives maximum strength.  
● Mount parts machined for perfect fit of scope and rifle.  
● The new 330-S has good definition in dim lights. In long eye relief it surpasses all others, permitting mounting forward of safety on the M-70 as shown, or forward of the bolt handle on the M-54.

**WINCHESTER**  
M-70 STANDARD RIFLE SCOPE AND MOUNT  
**\$95.25** FITTED

**M. L. STITH JACOBSON SAN ANTONIO, TEXAS**

**A MERRY CHRISTMAS**

**With a Gift Remembrance of All-Year Usefulness**

**A MODERN SCORE BOOK**

**\$1.00 (Spiral Bound) \$1.00**

Please him with a 10-X Shooting Coat, Glove or all leather gun case.

(Ask for folders)

**WISLER WESTERN TARGETS**  
Official NRA Targets

**543 Clay St. San Francisco**

powder measure when using coarse-grain military smokeless. I would expect an extreme variation up to 1/2 grain in our own Ideal measure with such propellants. In view of that, I think your group is rather remarkable as, by our measurement, it is 1.84 inches. This is better than most commercial guns will do under similar conditions, including the M-70 Winchester. I would say that the accuracy of your outfit compares favorably with a match rifle. I also think you could reduce the group size by using a first-class target scope with cross-hair reticule and the Fairbanks scale or even the Pacific scale for weighing your individual powder charges. If, for convenience sake, you want to use the powder measure for your regular loads, I would suggest that you make an arbitrary charger for same by cutting off a 1 1/4-inch rod of brass and drilling a hole to exactly give your arbitrary charge of 46 grains HiVel No. 2 powder. If you get your hole too deep you can fill it with solder and recut. It is better to have it wide and shallow than small and deep, because it will give you a more gentle cutting edge and that gradual curve in two planes is a great improvement on the right-angle cutting common to the Ideal powder measure as issued. Another stunt for uniformity in powder pressure or hopper feed is to use a large funnel in the top of your hopper to hold an extra supply of powder and afford a more constant feed.

#### SPECIFY ISSUE DESIRED

**I**N a recent attempt to reload some F. A. .30-caliber ammunition, I found the shell had two flash holes and, for this reason, impossible to decap. I would like to order new shells from the D. C. M. but am uncertain.

—D. S. R.

**Answer:** In ordering cases for reloading from the D. C. M. I would suggest that you have the order specify 1929 or 1931 cases, which we have found to be especially good. You can also use any of the later issue such as 1935 or 1936.

The 1930 cases which you have were a special lot loaded with Berdon primers for the National Matches, but found to be unsatisfactory for the matches and subsequently withdrawn and replaced at the opening of the Camp Perry program that year.

# GUNS



**COL. WHELEN  
MANAGER OF  
OUR GUN DEPT.  
SAYS:**

"I believe the National Time Payment Plan is the finest opportunity ever offered the Shooter to get what he wants and pay for it while enjoying its use."

We can supply you the leading makes of guns, scopes, or cameras, and all accessories. Terms approximately 1/10 down and balance spread over ten months. Immediate delivery.


Col. Whelen will be glad to help you make your selection.

Write today.

Handbook and Catalog. 152 pages. 452 illustrations. Costs 15¢ to mail. 50¢ Postpaid.

**NATIONAL TARGET & SUPPLY CO.**

Dept. A-24, 1249-25th St., N. W., Washington, D. C.



**4-POWER RIFLESCOPE**

Hitting the bullseye is easy—when you see it clearly. My Wollensak Rifle Scope magnifies target 4 times, draws fine bead. Double support for permanent accuracy; micrometer adjustments for windage, elevation. No parallax. Fits practically any rifle. Dealers or direct, postpaid for C.O.D.'s. Drills, taps included. Money-back guarantee. Free Book!

Wollensak Opt. Co., 679 Hudson Ave., Rochester, N. Y.

**WOLLENSAK**


**Give a Pack of HOPPE'S for Christmas A Sure Hit!**



**ATTRACTIVE,** handy. Contains Hoppe's No. 9 for bore cleaning, rust prevention—Hoppe's Oil to lubricate, clean, polish—Hoppe's Grease for rust prevention in storage—Hoppe's Patches to apply No. 9. And valuable booklet on Protecting Rifles and Shotguns. Frank A. Hoppe, Inc., 2321 N. 8th St., Phila., Pa.

Price \$1.00  
Get them at your dealer's, or direct.

**1 1/4" OBJECTIVE  
10X SCOPE  
ATTACHMENTS**



Made to fit any scope with target mounts—best quality Achromatic Lens—Focusing Adjustment. Locks in any position—Non-Rotating Lens. Makes fine target scope with 1 1/4" objective. All attachments standard gun blue finish.

Write for literature.  
**R. A. LITSCHERT CO. Winchester, Indiana**



The Arms Chest is an open market trading post where manufacturers, distributors, purveyors of professional services, and our own readers may cry their wares to fellow sportsmen at a modest cost. Returns are uniformly excellent—scores of advertisers have reported truly phenomenal results. Advertisements for The Members Exchange are accepted from members of the National Rifle Association, for their individual and personal transactions exclusively, at 7¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.00. Please give complete name, so as to

facilitate the proper issuance of money-orders. All dealers' advertisements are grouped under The Trading Post, the rate for which is 9¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.50. Groups of figures are computed as one word. Box number or blind ads not accepted. All advertisements must be accompanied by cash or they will be disregarded. Final closing date is the 5th of the preceding month. Please print all advertisements plainly—we cannot be responsible for errors due to illegible writing.

In describing the condition of guns advertised the following standard phrases must be used: *Perfect* means factory condition. *Excellent* means new condition, implying negligible amount of use. *Very good* means practically new condition, implying very little use, resulting in no appreciable bore wear and very few and only minor surface scratches or wear. *Good* means moderate use with some finish worn off, and only moderate bore wear with no pits and nothing worse than a little roughness in the bore. *Fair* means reasonably hard service, reasonable wear inside, and nothing worse than a few very minor pits in the bore, implying the gun is practical and sufficiently accurate for hunting purposes. *Poor* means marred appearance and pitted or badly worn bore.

#### THE MEMBERS EXCHANGE

For N. R. A. Members only, for their individual and personal transactions. This section provides a quick, inexpensive means for disposing of guns and accessories no longer needed, or for the purchase of more suitable similar items. We urgently request that a full description be given of every article offered, and its condition (see complete instructions above), for transactions of this sort must be based entirely on good faith and mutual satisfaction. Deliberate misrepresentation will of course result in immediate expulsion from N. R. A. membership.

#### FOR SALE

.257 REMINGTON ROBERTS Model, brand new, in factory grease, 48 sight, \$55.00. .357 Smith and Wesson Magnum 6 inch perfect, \$42.00. .35 box magazine 95 Winchester take down, perfect inside, outside good, 60 shells, \$18.00. 30-30-55 Winchester T. D. fired 20 times, perfect, \$25.00. Marlin 12 gauge hammerless pump, 28 inch, excellent, Price \$20.00. 30-06 Remington Express perfect, inside and outside excellent, Price \$32.00. Winchester .03-22 Automatic fired 200 times, perfect, \$18.00. 35 Remington Express, inside perfect, outside good, 2 boxes of shells, \$30.00. 33 Winchester full magazine, solid, box shells, inside very good, outside good, Price \$15.00. 22 Smith and Wesson, Olympic with beautiful factory case, cleaning outfit, perfect, \$25.00. 44-40 S.A. Colts, 5½ inch, inside perfect, outside very good, price \$18.00. 22 Woodsman new barrel low speed, \$19.00. Ithaca Super 10-32 inch, expensive pad, perfect, \$33.00. Spanish 7M.M. Mauser Sporter good 24 inch. Price \$12.00. Francis Evans, 1215 Gillespie Street, Santa Barbara, Calif. 12-37

SPRINGFIELD 1903 Sedgley, 30-06, excellent, Lyman 48 Receiver Sight, Hawkins Recoil Pad, \$50.00. W. E. Hess, 27 North Adams Street, Mansfield, Ohio. 12-37

THE TWENTIETH CENTURY GUN. A fine 12 gauge English 5¼ lb. ejector with a new system of taper boring and using a 2" shell now made by Remington. It develops more velocity than the regular 2¼ with a fine pattern and light recoil. The most important shotgun development in recent times. Liberal discount to regular dealers. New Fall catalog ready. Stamp please. Kimball Arms Company, 220 A Cambridge Road, Woburn, Mass. tf

BEAUTIFUL Solid Oak Gun Cabinet, Seventy-nine inches high, forty-eight wide, fifteen back. Holds six guns easily, two full length side doors. Nine drawers in bottom section, \$50.00. Royal 3 barrel shotgun, open and choke, 32-40 rifle barrel underneath, \$50.00. Birmingham England 22 N. R. A. with 6 power Winchester scope, \$40.00. 405 Winchester \$30.00. German snipers muzzle-loader used 1848, cheek piece, hair triggers, windgauge, moulds with 5 different bullets, \$30.00. All guns in excellent condition. E. P. Thomas, Hinsdale, Mass. 12-37

ANTIQUE FIREARMS. 2000 specimens in stock. 1937 printed-illustrated catalog \$1.00. Large Special List 20¢. Far West Hobby Shop, 406 Clement Street, San Francisco, Calif. 4-38

VOLCANIC pistol cal. .30, good condition, best offer gets it. Some more good bargains in remnants of private collection. Stamp for list. H. F. Prescott, P. O. Box 14, Capitol Station, Albany, N. Y. 12-37

EXCELLENT W52 H.B. Match Stock, 17G. Front \$38.00. K22, Outdoorsman, Excellent \$24.00. M.O.'s. J. W. Latham, 550 Ouray, Grand Junction, Colo. 12-37

NOTES ON GERMAN ORDNANCE. 1841-1918, 128 pages FULLY ILLUSTRATED, data on small arms, machine guns, grenades, trench mortars, field artillery of German Army. Price 75¢. Carl Fuller, 17 E. 45th Street, New York City. 12-37

M70 WINCHESTER Standard Stock, new \$12.00. 2¼ "Malov" Hunting Scope and good very lowest mount, new, cost \$55.00, for \$35.00. The best scope and mount for hunting. N. L. Geary, Stover, Mo. 12-37

FOR SALE Cash, Griffin and Howe 30-06 Springfield sporter, excellent. Circassian Walnut stock checked, Gold bead front, Lyman 48 Rear, Price \$100.00, cost \$225.00. W. A. Gillian, Kendallville, Ind. 12-37

9MM LUGER with original holster, very good to excellent, \$30.00. Letters answered. D. Abell, Box 333, Hobbs, New Mexico. 12-37

BAUSCH & LOMB Sports Binocular, Pigskin Case, cost \$19.85, only \$8.00. 8 x 40 Zeiss Delactis, \$75.00. Bulova Strap watch, cost \$33.00, only \$18.00, like new. Illinois 17 Jewels Wadsworth case, cost \$52.00, only \$15.00. G. D. MacMillan, 4637 Maiden Street, Chicago, Ill. 12-37

A RARE RIFLE in fine condition, 40-82 Winchester. Roy E. Bales, P. O. Clerk No. 1, Mena, Ark. 12-37

BINOCULAR, new model Featherweight Hensoldt, 7 x 56 and case, equal new, cost \$210, sell first money order \$100. J. H. Gorta, 843 8th Ave., New York City. 12-37

LATE 52 Speedlock, sling, 10X Targetspot, both excellent, \$85.00 Cash. M. Andrews, Bainbridge, N. Y. 12-37

HEAVY SPRINGFIELD, Niedner bull gun, Olympic Stock, perfect \$85.00. Robert Phelps, Newport, R. I. 12-37

95 30-06 Very good, Silver's rubber heelplate, fancy stock, receiver peep. U. H. Prichard, 316 Cameron Street, Shamokin, Pa. 12-37

FOR SALE several new Leica lenses and accessories. Prof. Frank Urban, Washington University Medical School, St. Louis, Mo. 12-37

FOR SALE. Few duplicates antique & modern arms. Stamp appreciated. George A. Kipp, Thousand Island, Clayton, N. Y. 12-37

AMERICAN RIFLEMAN, ten years, Oct. 1927 to 1937. All copies excellent condition for binding. Subject to prior sale, make offer. W. K. Armstrong, 2059 No. 63rd Street, Philadelphia, Penn. 12-37

CLOSE OUT! 10-X Aristocrat Coats \$6.95 postpaid while they last. Zeppelin Arms, Akron, Ohio. tf

TARGETSPOT. 10X, recoil spring, caps, Sunshade, excellent, \$45.00. Paul St. Jean, 604 Bellevue Ave., Yonkers, N. Y. 12-37

KRAG BOLT, complete, good, \$2.00. Enfield Service stock, excellent, \$1.00. 22 Savage old N. R. A. stock excellent \$1.00. RIFLEMAN, July 1931 to June 1937, 4 missing, 10 duplicates, \$7.00. Eugene Powell, 128 E. Yosemite Ave., Madera, Calif. 12-37

COLT'S .45 Gov't Model, excellent, \$25.00. C. Traber, 3543 Wyoming, St. Louis, Mo. 12-37

.30 CALIBER NEWTON ammunition, Western open point 180 gr. \$1.25 box of 20. Paul Wright, Silver City, New Mexico. 12-37

100 FINE COLTS, S&W, Winchester, Remington, Stevens, Savage, also a few rarities including Whitworth rifle, two wheel-locks, etc. List 5¢ (stamps). Calvin Goddard, 3533 Quebec, Washington, D. C. 12-37

EXCELLENT B&L Draw-Tube Scope purchased new last April, \$25.00. Vincent F. Malmstrom, 540 John St., Kalamazoo, Mich. 12-37

OFFICERS MODEL .38 Special, Factory grease \$30.00. Paul James, 2325 So. Ainsworth, Tacoma, Wash. 12-37

NEW 38 COLT Shooting Master, hand honed action, forty (40) dollars. No trades. S. K. Blank, 820 Wethersfield Ave., Hartford, Conn. 12-37

¼" FECKER 10X, Lyman micrometer mount, case, \$30.00. James Daly, 152 So. Portland Ave., Brooklyn, N. Y. 12-37

NEW SERVICE .45 Colt, perfect, with belt holster, \$20.00 Cash. Ben Vaupel, Mt. Vernon, Ind. 12-37

ANNIE OAKLEY'S personal gun Tournament Grade Remington Auto Loading twelve gauge cylinder with extra full choke barrel. Beautiful stock, excellent condition, One Hundred Dollars. Thirty-five millimeter De Vry motion picture camera, 6 inch telephoto lens, tripod, projector, various extras, cost over Seven Hundred, will take Two Hundred, no trades. John W. Hession, Box 906, New Haven, Conn. 12-37

OVERSTOCKED!!! .22 Round Cleaning Patches, dozen boxes, \$2.15; Regular dollar Sheepskin Shooting Gloves 85¢ each; \$9.00 per dozen. Zeppelin Arms, Akron Ohio. tf

#### RATE INCREASE!

Effective with the next issue (January), the rate for all classified advertising has been increased one cent per word.

Purely personal ads, from those holding active individual memberships in the Association, will be eight cents per word hereafter. The new rate for all "dealer" advertising, offering goods or services for sale commercially, for profit, will be ten cents per word.

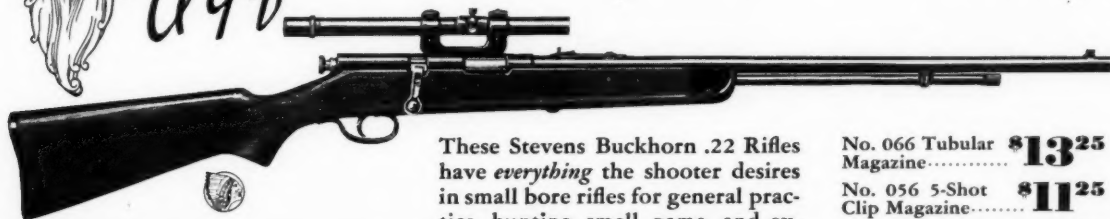
These rate increases have been made necessary by our continued growth in circulation, and greatly increased publishing costs.

Please remember that we must have all classified copy for the January issue not later than December 5th, the final closing date. And ALL remittances must be at the new rates.



*A Gift*

YOU'RE SURE HE WILL ENJOY!



## STEVENS

### Buckhorn .22 rifles

THE RIFLES WITH THE BLACK TIPS

These Stevens Buckhorn .22 Rifles have *everything* the shooter desires in small bore rifles for general practice, hunting small game, and extermination of vermin. Fast action . . . man's size stock . . . and above all, *remarkable accuracy!*

No. 066 Tubular Magazine..... **\$13<sup>25</sup>**  
No. 056 5-Shot Clip Magazine..... **\$11<sup>25</sup>**  
No. 053 Single Shot **\$6<sup>40</sup>**  
No. 20 Scope..... **\$8<sup>00</sup>**

## J. STEVENS ARMS COMPANY

Division of Savage Arms Corporation DEPT. MS-10, CHICOPEE FALLS, MASS.

.45 CAL. CALIBER MUZZLELOADER with scope & accessories, very good, \$40.00; .50 cal. Phillips muzzleloader with scope & accessories, excellent, \$60.00; Scheutzen type muzzleloader, fair, \$10.00; Maynard .32, extra .22 bbl., poor, \$7.50; .22 S&W mod. 1902, good, \$25.00; .22 H&R U.S.R.A. 10", excellent, \$18.00; Stevens-Pope 44½ cal. 22, good, \$30.00; Stevens-Pope 47, cal. 33-40, accessories, very good, \$40.00; Win. S.S. Scheutzen cal. 22 short, extra 32-40 bbl. & block, fine \$35.00; Win. 54 Hornet, perfect, \$40.00; Ithaca 28 #1, 200 shells, fine, \$40.00; Druggist scales, \$5.00; Arms & the Man, 1917, 1918, 1919, 125 issues, \$15.00; Scribners & Harpers bound magazines between 1870 & 1880, 15 volumes, \$15.00; Forest & Stream, 1880's, 60 issues, \$10.00; American Field 1880's, 50 issues, \$7.50. F. Murray Leyde, 287 Liberty St., Painesville, Ohio. 12-37

**FREE!!! Money-Saving Catalog.** Zeppelin Arms, Akron, Ohio. tf

WINCHESTER Sporter. Excellent. \$60.00. Enfield Sporter, Stogier remodeled, with Hensoldt Dialyt 4X & Redfield mounts, Emergency Iron sight. Excellent, \$75.00. Mauser Cal. 22 Master Target Rifle, 5 & 10 shot clip, cost \$88.50, Stogier 1936 catalogue, perfect, never shot, \$55.00. Mauser cal. 32 Auto. Pistol, 3 clips, 75 cartridges, good, \$15.00. 3 Hensoldt Scopes, perfect, never used. 4X Dialyt with windage, \$45.00, Zeil-Dialyt 234X windage, \$39.00, without windage \$32.00. Money Orders only. Fred Wolter, St. Francis P. O., Wisconsin. 12-37

3 KRAGS, Winchester '95, Remington 12 Gauge, Remington .22 Automatic. Description & prices on request. W. C. Burnett, Box 885, Corpus Christi, Texas. 12-37

SAUER 30-06 Mauser, 20" Octagon barrel, matted Rib, set trigger, Mannlicher type stock, blade front, Lyman #35 rear, new condition except a few small bruises on stock and scratches on trigger guard, in soft horsehide case, \$85.00. Springfield service rifle, Rock Island #260688, used very little, barrel excellent, stock has a few small bruises, extra firing pin and extractor, with bond tong type loading tool, \$25.00. Henry C. Chapin, 32 Valleywood Road, Coscob, Conn. 12-37

FOR SALE: Standard 52 Speedlock, excellent in, good out, \$30.00. Excellent Underwood noiseless portable typewriter, M77, with case \$45.00. W. P. Mahaffey, 501 N. Hermosa Ave., Albuquerque, New Mexico. 12-37

ALL NEW. Win. Hi-wall action, curved tang, \$12.50. 44½, D.S., \$11.00. Win. .22 L.R. by Johnson, single set, 1A, blocks, case, \$19.00. Henry Roberts, Box 948, Plainview, Texas. 12-37

PARKER G.H.E., excellent, 12 gauge, 6½ lbs., 26" barrels, improved and full; Stock 1½x2¼x14½, Hawkins pad; \$60.00. Inspection. Joe Harris, 2606 Monterey, St. Joseph, Missouri. 12-37

REMINGTON 12 ga. Sportsman 28" full, perfect, never fired, \$38.00. Remington model 31, 16 ga. 28" full, rib checkered, excellent, \$38.00. Savage Hornet 23D, S.L., excellent, \$25.00. Savage 22 cal. pump, clip, new barrel, \$8.50. Remington model 12, new barrel, \$10.50. Remington model 12, 27" target barrel, heavy pistol grip, stock, Beavertail fore-end, excellent, \$19.00. Winchester Musket, very good, \$11.00. Walter Jung, Sauk Centre, Minn. 12-37

COLTS P.P. Target .22 L.R., Brand new as received in factory box. Roper grips. Sacrifice, \$26.00. No trades. Dr. J. W. Sperber, 5202 Storer Ave., Cleveland, Ohio. 12-37

## For A Merry Christmas



\$4.75  
TO  
\$32.50

## WEAVER Rifle Scopes

Models for Target, for Hunting, for .22 Rifles, for Big Game Rifles.

Internal adjustments for windage and elevation, individual eye-piece focus, rigid and sturdy mount, light weight and compact.

Write Dept. 1 for free literature.

**W.R. WEAVER CO.**  
EL PASO, TEXAS

## PHILLIPS GUN-X

Gun Bore Cleaner and Protector. Semi-Liquid, it will not run off. Use GUN-X on your cleaning patch. The MODERN easy method of cleaning and protecting your firearms. Money Back Guarantee. Ask your dealer or send 35¢ today for a tube of GUN-X.

## SPORTSMAN'S PRODUCTS

Dept. A. Box 138 La Crosse, Wis.



If you reload in quantities, you should have a Star Automatic Lubricator and Resizer; also a Star Progressive Reloader.

Send 3¢ Stamp for Folder.

**STAR MACHINE WORKS**  
418-10th Avenue  
San Diego, California

FOR SALE: .22 Ballard, 30" octagon barrel, Vernier tang and Globe sights, scope blocks, excellent, \$20.00. .22 Winchester 57, Lyman #42 and Weaver #344 scope, new, \$25.00. .32-20 Savage Sporter, Lyman #42 sight, excellent, \$12.00. Ideal D. A. 38-56 reloading tool, excellent, \$3.00. S. A. Green, 289 Depew Street, Dumont, N. J. 12-37

KEYSTONE Movie Camera with accessories, cost Seventy, sell Forty-five. Leonard C. Hughes, Frankfort, Ky. 12-37

ONE SCHICK Electric Shaver with new unused number 10 cutter head \$9.00. One Saybrooke shaver R. H. Macy, new, \$7.50. One Miracle shaver Marshall Fields, new, \$6.00. C. D. Christie, 818 Erie Street, Oak Park, Ill. 12-37

MARLIN MODEL 90 Over-Under 12 Ga. 26 inch barrels, Excellent, \$25.00; 22 repeater, very good, \$8.00. Wm. F. Ahrendt, Dubuque, Iowa. 12-37



## ZEISS RIFLE SCOPES BINOCULARS

Optical and mechanical perfection famous throughout the world. Whether you get one or give one, a Zeiss Binocular or Rifle Scope will make this Christmas a memorable occasion.

At leading dealers. Write for Literature.



**CARL ZEISS, INC.,** Dept. TZ-5-12  
485 FIFTH AVE., NEW YORK  
728 So. Hill St., Los Angeles

ASK YOUR DEALER TO SHOW YOU THE NEW  
**ZEISS IKON CAMERAS**

## AN IDEAL GIFT FOR XMAS 9-INCH WORKSHOP SOUTH BEND LATHE

New Low  
Terms  
ONLY \$6.95  
A MONTH



Give him a lathe for Xmas—The 9"x27" Workshop Precision Lathe—Back-Geared, screw-cutting. Made in 4 bed lengths. Takes 38 attachments. Wt. 320 lbs. Prompt deliveries for Xmas.

Write for  
Catalog  
15-Y

\$90  
LESS MOTOR  
DRIVE

**SOUTH BEND LATHE WORKS**  
248 E. Madison St. South Bend, Ind., U.S.A.



# TRAP SHOOTERS

Announcing  
The  
Field & Stream  
Badge of Honor  
for  
Amateur  
Skeet and  
Trap Shooters

TO EVERY amateur shotgun artist who, since June 1st, 1937, has actually broken 50 or more clay targets straight without carry-over (handicap, practice targets and shoot-off targets not included), in any registered shoot, whether Trap or Skeet, Field & Stream will award one of these handsome badges. Badges for skeet will be gold-bronze finish; those for regular traps silver finish. In each class there will be two badges, one bearing the words 50 STRAIGHT for those breaking 50 to 74; another bearing the words 75 STRAIGHT for those breaking 75 or more. For those breaking 100 or more badges will have the score engraved on the back.

The tremendous enthusiasm which fishermen have shown in the Field & Stream Angler's Badge of Honor has prompted this Trapshooters' Badge of Honor. We know that the sportsman who breaks 50 or more straight targets is just as proud of his skill as any angler could be of landing a big fish; and we believe he will be as proud to wear one of these badges as are the 1600 fishermen who have already been awarded anglers' badges.

If you qualify for a badge, and are strictly an amateur, fill in and

## MAIL THIS COUPON NOW

(Be sure to have it signed by secretary of club or shoot where score was made)

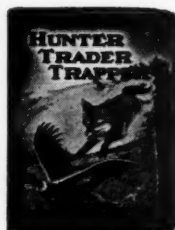
Name \_\_\_\_\_

Address \_\_\_\_\_

Score, and contest and date on which score was made \_\_\_\_\_

Check which: Skeet ☐ Trap ☐  
I certify to the above: A.R. \_\_\_\_\_

Secretary of above named club or shoot.  
Name and address of your gun club \_\_\_\_\_



## BIG SPECIAL OFFER

### HUNTER-TRADER-TRAPPER

A monthly sporting magazine that's different. Contains stories written by fellows like you. Pictures of you and your friends, your questions answered. Gun department by C. S. Landis; trap shooting department by Willis O. C. Ellis; fishing department by Ben Robinson. Other departments on boating, trapping, fur farming, dogs, etc. You'll like H-T-T. Everyone else does.

### REMINGTON SPORTSMAN'S KNIFE



One of the most popular knives Remington ever made for sportsmen. Bone stag handle brass lined, convenient size, two real blades in place of only one, everything needed for an actually serviceable knife. Makes an elegant present.

Both for only \$1.00

Simply write your name and address on the margin of this advertisement and mail it to us with \$1.00. Your subscription to H-T-T will be entered for six months and the knife sent by return mail.

### HUNTER-TRADER-TRAPPER

383 So. Fourth St. Columbus, Ohio

## FREE! GUN CATALOG

Bargains In Guns, Scopes, Sights, Reloading Tools, Sleeping Bags, Cameras, Binoculars, Special Prices! Sedgley Rifles, Winchester Model 70, Hi-Standard Pistols. Just Arrived! New Stock Weaver #298 Scopes and #336 Scopes.

SKIERS! Send for Free Bargain Ski Catalog Clubs! Send 10¢ for 1938 Medal Award Catalog.

J. WARSHAL & SONS First & Madison-B Seattle, Wash.

### Your Empty Shells Reloaded

WITH  
SAFE AND ACCURATE LOADS

Save half on ammunition. Forty-five years reloading experience. Send for circular.

DURGIN RELOADING SERVICE  
3201 Morehead Ave. El Paso, Texas

## IMPROVED BULLETS

for all popular high-power sporting rifles from 25 to 8 m/m caliber with a selection of weights and types to fill the most exacting requirements of the sportsmen, including new spitzer type bullets for the .257 Roberts cartridge. Note: We do not export.

WESTERN TOOL AND COPPER WORKS  
P. O. Box 856 Oakland, Calif.

NO. 1 COLT cased with all original accessories in fine presentation style, about factory new, the first Colt manufactured in the London Armory, presented to Col. Colt. Paterson Colt smooth bore Carbine. Fine Joseph Manton double flint lock fowling piece. Rare U. S. Martial Pistols, other fancy cased colts. Ladies S&W .22 target revolver. Many others. No list. R. E. Harper, Wakefield, Mass. 12-37

PARKER, DHE grade double barrel 12-gauge. Both barrels full choke. Recoil pad, sights. Condition excellent. \$100.00. Anthony Jowitt, 712 North Foothill Road, Beverly Hills, California.

PARKER DOUBLE, Trojan model, 16 gauge, 28 inch barrel, bored Modified and full, excellent condition, \$45.00. Robert Miller, 2035 East 5th Ave., Columbus, Ohio. 12-37

FACTORY SECONDS Recoil Pads \$1.00, postpaid. Complete with screws for attaching. You save \$2.25. Send outline of gun butt. Prompt delivery and satisfaction guaranteed. Incor Mfg. Co., Terminal Bldg., Youngstown, Ohio. 12-37

PERFECT 54 Winchester 22 Hornet, Vaver micrometer rear, Globe Redfield front, scope blocks attached, mounts, Fecker 4X scope sight, Whelan sling, \$80.00. #10 Remington 12 ga., good, \$15.00. 7.65 Mauser, excellent, \$17.50. Nickelplated 25 Cal. Colt, automatic, pearl grips, clip holster, perfect, \$15.00. Conrad Pedersen, 1307 Bloomfield, Hoboken, N. J. 12-37

52 WINCHESTER, 48J, 17A, latest model; Bausch & Lomb Prismatic; both new, \$40.00 each. Chas. Colbert, 928 North Street, New Kensington, Pa. 12-37

ZEISS 8x40 Delactis Binoculars, good, \$50.00. T. F. Mitchell, 1113 Park Ave., Hoboken, N. J. 12-37

DOUBLE RIFLE, Greifelt .45-70, perfect except for slight roughness in left barrel near chamber. Accuracy guaranteed. For complete description see August '36 RIFLEMAN, page 25, and March '37, page 30. \$150.00. John Halliburton, 3747 Atlanta Avenue, Hapeville, Ga. 12-37

S.A. 45 x 434, \$22.00; Colts 380, \$15.00; Marlin 38-40 Lyman, \$17.00. All as new. S&W Hammerless 38 x 4, \$14.00, P.P. 32-20 x 5, \$16.00, both fine. RIFLEMAN '29 to '37 complete, \$10.00. 85 Outdoor Life, \$4.00. E. R. Fraser, 604 So. 9th St., Walla Walla, Wash. 12-37

SHORT LEE-ENFIELD British Service Rifle, 85 cartridges, \$15.00. Colt .32 Auto, holster, good plus, \$12.50. W. Housel, Humboldt, Iowa. 12-37

38 COLT O.P. 6" Perfect, Holster-belt, \$25.00, same excellent, \$20.00. 94 Win. 32 special, perfect, Case, \$25.00. John McArthur, 491 W. State, Sharon, Penn. 12-37

52 SLOWLOCK, very good, guaranteed accurate, \$20.00. George Richardson, 83 Lansing Street, La Porte, Indiana. 12-37

WE OFFER a few ML rifles in shooting condition. List on request. Kimball Arms Company, 220 Cambridge Road, Woburn, Mass. 12-37

NATIONAL Match Springfield #1231923, newly rebarreled, Type "C" stock, service sights, plus 48 and 17A, \$40.00. J. Bushnell Smith, Middlebury, Vt. 12-37

VAVER MIELT, scope height, right side extension, excellent, \$8.00. David Webster, 145 Oakland Ave., Oshkosh, Wis. 12-37

W52 STANDARD Speedlock, 48J-17A, very good out, excellent in, \$35.00. 10X Targetspot, new, excellent, .0005 Reticule and mounts \$40.00. J. Cameron, 659 Michigan, Highland Park, Ill. 12-37

GUN CLUBS ATTENTION! Send 10¢ for 1938 fully illustrated award, Medal Catalog, 50% discount. Free Catalog! Guns, Scopes, Sights, Targets, Sleeping Bags, Fishing Tackle. J. Warshal & Sons, First & Madison-BB, Seattle, Wash. 12-37

REMINGTON Auto 12, 28" full, fair, 38 S&W Spl. 4", like new, left grip slightly chipped, 30-30 Marlin carbine, gold bead, good, \$18.00 each, 9 MM Luger 8" gold bead, like new, \$22.50. Double barrel 410 hammer, 24" laminated steel barrels made in Belgium, cost about \$50.00, with canvas case, \$16.00. Stamp please. H. Deline, 20 Graystone Terrace, San Francisco, Calif. 12-37

BEAUTIFUL \$550.00 grade genuine Charles Daly eight gauge double shotgun, \$100.00. Winchester lever action ten gauge, \$25.00. Both fine condition. Hepburn ova-unda P.L. double rifle about 38 cal., \$25.00. WANT—Four gauge paper or brass, loaded or empty shells. Stamp. Frank R. Irving, 175 Prospect Street, Biddeford, Maine. 12-37

52 SPEEDLOCK Standard, Goss rear, Vaver front, excellent, \$35.00. Malcolm 8X, Lyman 5A mount, perfect, \$18.00. Homer Galloway, Lore City, Ohio. 12-37

FOR SALE: Springfield-Pope, heavy barrel, 30-06, Lyman 48 rear, Redfield front, good condition, \$35.00. B&M Model 26 Tool complete for 30-06, 30-40, 300 Magnum, bullet puller, \$13.00. H. H. Gray, McMechen, W. Va. 12-37

FOR SALE: Model 52 with heavy barrel, factory sights, with sling, excellent. Earl Cupp, Connerville, Ind. 12-37

COLT OFFICIAL Police 5" 38, \$20.00. Stevens-Sears Ranger, 57 Rear, \$18.00. S.A. Sportsman, \$15.00. All accurate, perfect inside. Walter Ralman, R. D. #1, Macon, Ga. 12-37

## THE AMERICAN RIFLEMAN



**BARGAINS!** 12 gauge Overunda trap gun by Funk. 32" Krupp barrels. 65 and 75% choke. Ventilated rib. Fine P.G. stock. 14 1/2 x 1 3/4 x 1 7/8. Today's retail, \$235.00. Excellent, close out, \$97.50. Mannlicher Schoenauer 8 m/m full stock with Lyman 36 rear, very good, \$65.00. Winchester Model 71, calibre 348, lever action with peep sight and sling, excellent, \$52.50. Winchester 54 30-06. Peep sight, excellent, \$49.50. Remo bolt action, 16 gauge, two shot repeating shotgun, excellent, \$20.00. Krag Carbine, accurate, very good, \$17.50. Kimball Arms Company, Cambridge Road, Woburn, Mass. 12-37

**STEVENS** Walnut Hill, H.B., Excellent, \$32.50. Enfield Sporter, 22 in., receiver rear. Springfield front, good, \$20.00. Roy R. Murphy, Woodburn, Ind. 12-37

**MODEL 1917** Enfield, very good issue except fair sporter stock, \$12.50. 7.62 Russian Sporter, bore very good, bolt peep, 60 cts's., \$10.00. Mauser 98 sharpshooter model, good, \$16.00. Carl M. Lewis, Onaga, Kans. 12-37

**STANDARD 52**, Speedlock, 17A front, factory rear, sling, 10 shot mag., all perfect, \$35.00. Colt 1917, good, \$12.00. Want perfect Win. 54 Hornet. Frank W. Hassel, Princeton, Illinois. 12-37

**TWO MAUSER** 7.63 calibre pistols good, \$21.00 each. Colt 45 Auto., commercial issue, very good, \$12.50. Will pay cash for excellent K-22. Earl Ehling, 610 E. 11, Winfield, Kansas. 12-37

**.45 A.C.P.** Good out and in, new barrel. Heiser holster, \$25.00. M.O. Chas. Braun, 98 W. Wheeling St., Washington, Pa. 12-37

**WINCHESTER 70** Hornet, 150 rounds, \$43.00. Fecker 4X, 16" scope, perfect, \$25.00. Ralph Koken, Superior, Nebr. 12-37

**TELL PISTOL**, Hensoldt scope, perfect condition. J. Deville, 431 S. Wabash Ave., Chicago, Ill. 12-37

**GRIFFIN & HOWE** Bullgun, Springfield action. Winchester 26", 1" x 15/16" barrel, #48 rear, Winchester front. Good inside & out. \$65.00. Horace E. Westgate, 55 Summer St., Abington, Mass. 12-37

**COLTS ARMY** Special 38 with fancy hand carved Heiser, very good, \$18.00. Smith & Wesson M.P. 38 Special, 4 in. bbl., good, \$13.00. "Single Action" Sportsman, perfect, \$17.00. Colts 45 Mod. 1909, good, \$12.00. 45-70 Springfield, excellent, \$5.00. Want 25-35 Winchester. James Putnam, Route 2, Garfield, Arkansas. 12-37

**SKIERS ATTENTION!** Send for Free Bargain Ski Catalog. J. Warshal & Sons, First & Madison-BB, Seattle, Wash. 12-37

**STANDARD 52**, Speedlock, cheek piece, grip adapter, 17A. Quick loader, very good. Fecker 10X scope, 1/2 click mount, excellent. Trunk for both. \$68.00, or best cash offer. Would sell separately. Oliver Goodrich, Penn Yan, N. Y. 12-37

**FECKER 8X**, 1 1/4", 1/4" Lyman mounts, hi-power eyepiece, very good, \$42.50. Ideal blocks No. 360302, 112 gr., perfect, \$2.75. Allan McLaughlin, Grand Blanc, Michigan. 12-37

**54 WINCHESTER** 30-06, Lyman Rear, Gold Bead Front, \$40.00. National Match Springfield, 30-06, \$45.00. Krag Carbine 30-40, Lyman Rear, \$20.00. 500 Rounds 30-40 Ammunition, 75¢ box of 20. Fecker Scope 1 1/4" x 3/4", 10 power, micrometer mounts, \$45.00. This equipment excellent condition guaranteed. A. Truscott, Life Member, 224 W. Norman Avenue, Dayton, Ohio. 12-37

**M12 WINCHESTER** 3" Magnum Duck gun, 30", full, new condition, \$35.00. C. F. Johnson, Waverly, S. D. 12-37

**SELLING OUT!** Need Cash. 30-06 Remington Express, sling, B&M micrometer bolt sight, very accurate, excellent, \$35.00. Niedner Mauser 220 Swift, 26" medium heavy barrel, ramp front sight, d.s. triggers, Monte Carlo pad, 8X Targetspot, stippled receiver, frosted bolt, very accurate, excellent, fired less than 100 times, \$125.00. Mauser 8 MM action, \$7.50. Jordan reloading press, dies and neck trimmers for 30-06 and 220 Swift, cost \$37.00, new never used, take \$28.00. 700 22 cal. bullets \$6.00. B&M powder measure, \$6.00. Zeiss 8x40 Binoculars, excellent, \$60.00. Noske 2 1/4 X scope click adjustments, new, \$27.50. Enfield sporter, excellent, \$25.00. Dewey Biggs, 6346 Drexel Ave., Chicago, Ill. 12-37

**SEDGLEY 22/3000**, 28" barrel for Winchester s/s, scope rib, resizing die, excellent, accurate, \$10.00. Vaver telescope height sight block, \$1.00. Lyman 17A "S". Complete, \$1.50. Stevens 44 Ideal, heavy 22 L.R. Beautiful hi-comb, C.P. Myrtle stock, refitted from custom Win. s/s, Beavertail fore-end, Lyman 17A-103, Scope blocks, vg, accurate, \$23.00. Basil Tuller, Galeton, Penna. 12-37

**MAUSER SPORTER**, Hornet, D.S., inside excellent, outside good, reloading tool, accessories, \$45.00 Cash. Stamp Please. John Schneider, 807 West Mulberry Street, Springfield, Ohio. 12-37

## A FECKER RIFLE TELESCOPE

or Spotting Scope  
makes an ideal Christmas Gift.

These scopes come in various sizes and price ranges. There is a scope to suit each individual purpose and to fit any rifle.

Write for catalogue.

### J. W. FECKER

2016 PERRYVILLE AVENUE  
PITTSBURGH, PA., U.S.A.



THE V. H. CO.  
BOX 202  
YONKERS, N. Y.

### TRUE-VISION TARGETS

**The Shooters Choice**  
Give Father and Son a package of TRUE-VISION TARGETS for CHRISTMAS. Let them really enjoy their shooting. Their thanks will be sincere. These targets are worthy of their ammunition. Price, \$1.00 for 50; \$2.00 per 100. Postpaid.

**Steadies Your Hand—  
Reduces Strain in Aiming**



Greater accuracy from improved balance by a 3 1/4 oz. weight (approx.) Steel, accurately machined, blued. No machine work to attach, just tighten screws. Will fit Colt .22 Automatic Pistol 6 1/2 in. barrel. State if straight 1/2 in. or tapered barrel. \$2.50 postpaid.  
**STEDIMOR BALANCER** Box 605 Rockford, Illinois



### FOR XMAS

An  
**R 200 Shooting Jacket**  
\$1.65 Postpaid  
**SUVAL PRODUCTS CO.**  
Box 844, Binghamton, N.Y.

**ASSORTED LOT of Reloading Tools and Bullet Moulds.** Write for list. Stamp please. Krider's Old Gun Shop, N.E. Cor. 2nd & Walnut St., Philadelphia, Penna. 12-37

**WINCHESTER M.70** Hornet, Weaver 5X 355 scope and Lyman blocks, inside perfect, outside nearly perfect, \$50.00. Winchester M.95 30/40, inside perfect, outside excellent, \$20.00. Marlin 25-20 M.1890 lever action, inside excellent, outside very good, full mag., \$15.00. F.O.B. Topeka, First M.O. takes same. Frank Newton, Jones Electric, 622 Van Buren, Topeka, Kansas. 12-37

*Dear Family  
I've Checked  
the things  
I Want...*

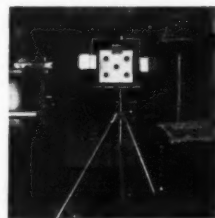
**Everlasting Gifts**  
That Make  
Indoor Shooting  
**SAFE, PLEASANT,  
CONVENIENT**

## X-RING Centrifugal BULLET TRAPS

X-RING makes INDOOR shooting SAFE—any time, any place, any caliber, any distance. Not just another backstop, but a scientifically designed apparatus that stops bullets by friction centrifugally applied—not by impact. Bullet is deposited gently in receiver. No dangerous back splatter. Order from this ad or send for free literature.

See illustrations for styles and sizes.

18" Pedestal  
Model without  
Lamp Bracket  
**\$30.80**



Shows 12" Pedestal Model with Lamp Brackets. Safe to use in any surroundings.

12" Pedestal  
Model without  
Lamp Bracket  
**\$16.50**

12" Table Model  
without Lamp  
Bracket  
**\$14.30**



Shows 18" Pedestal Model and Table Model with Lamp Brackets. Stands up under severest continuous service.

Lamp Brackets  
each  
**\$3.00**

DO-ALL Carrier  
**\$6.80**

Prices F.O.B.  
factory

## X-RING DO-ALL Target Carrier

Ideal for use with trap or any other backstop. Simple, easiest operating carrier made. Suitable for individual use or on Club ranges. Economical to buy, speedy in operation, long lasting, and costs practically nothing in upkeep.

**Gift Special: 10% Discount from these prices on any X-RING product bought for an NRA member.**

**X-RING PRODUCTS CO.**  
503 North Street Peoria, Illinois

# "PACIFIC" Equipment Ideal for Christmas Gifts!

**PACIFIC  
GUN SIGHT  
CO.**

Any shooter would like to have "Pacific" equipment—this kind of gift will please him and you will have the satisfaction of having given him THE BEST!

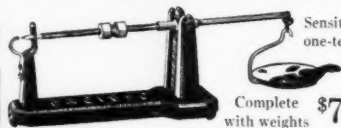


## "PACIFIC" RELOADING TOOL

The only custom built tool on the market. Ask about our new dies hardened by the liquid carburizing system. All calibers.

\$20.50  
and  
\$22.50

Complete Stock  
of  
RELOADING  
SUPPLIES



## "PACIFIC" POWDER MEASURE

For pistol and hornet re-loading. Extremely accurate—fixed charge—fast. Send for Special Circular. Price \$4.50.



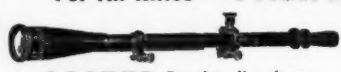
## "PACIFIC" SCALE

Sensitive to less than one-tenth of a grain.

Complete with weights \$7

ORDER DIRECT  
OR THROUGH  
YOUR DEALER

For All Rifles—"PACIFIC" SIGHTS—Front and Rear



## SCOPES

Complete line from \$4.75 to \$100.00

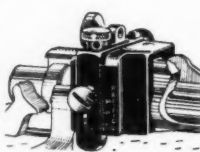


## RAMP SIGHT

Made for barrels .595 to .650 in diameter. \$4.75 (without hood, \$3.25).

## Full Micrometer Sight Model EN-2

Specially built for the Enfield. Can be attached without drilling or tapping any holes. Price, \$7.00.



**CATALOG** Send 20¢ for new CATALOG and HANDBOOK. The 20¢ partially covers the cost of publishing and mailing. The 20¢ will be refunded on your first order. Requests from Canada: send 25¢.

Circulars (state which you desire) on "Pacific" Reloading Tools and on "Pacific" Sights will be sent on request **FREE**.

# PACIFIC GUN SIGHT CO.

353 Hayes St., San Francisco, California

**THE CHRISTMAS GIFT**  
All Sportsmen  
Genuinely Appreciate

**SPORTSMAN'S CABINETS**

DS-15 \$9.95

Any red-blooded man will be DELIGHTED with one of these shipshape cabinets. The DS-15, 63" x 22" x 12", has 4-gun and big tackle capacity—plus ample space for clothing and boots. . . DS-40, 63" x 34" x 12" — ample room for 4 guns, also shelves for hunting and fishing equipment. . . Heavy steel, electric welded, brown or green finish, nickel door handles and hinges. Built-in lock. \$1.10 extra. Prices F.O.B. Horizon. Send money order for prompt shipment.

DS-40 \$14.95

**GARDNER MANUFACTURING CO.**

DEPT. 104 HORIZON, WIS.

**"PAY WHILE YOU PLAY"**

Why think about your next Gun—Own it and use it NOW—8 months to pay—Immediate Delivery.

**48 HOURS TRADING EXCHANGE**

Write to-day—what you have and what you want. We answer AIR MAIL Stating LIBERAL ALLOWANCE. Our Shipments Prepaid.

**LARGEST STOCK: GUNS—AMMUNITION—OPTICAL EQUIPMENT, etc.**

**NEW 40 Page Illustrated GUN Catalog—Send for it to-day**

**Sloan's Sporting Goods Co., Inc.**

88-A Chambers St. New York City

**TRAJECTORY**  
is a measure of  
MUZZLE  
VELOCITY!

OUR UNIVERSAL BALLISTICS CHART, STYLE UVE-50, gives the Method and the Key enabling You to translate Range, Distance and Wind Angles into Muzzle Velocity for any bullet from your rifle. — Send 75¢ for your UVE-50 —

**SPORTSMAN'S SCIENTIFIC SERVICE**  
809 Jackson St., Aurora, Ill.

**Bargains in New and Used Glasses!**

Nature, sport and hunting field glasses; all makes, sizes and powers, \$3 upward. Telescopes, spotting and riflescopes. Microscopes. Magnifiers \$1 upward. Compasses. Repair work. Glasses exchanged. Catalog Free. Goods on approval. Address Box D.

**J. ALDEN LORING, OWEGO, N.Y.**

REMINGTON Model 32, over and under Skeet gun with solid rib and recoil pad, excellent, \$75.00. Benj. Stafford, 884 Maple St., Fall River, Mass. 12-37

SEDGLEY-SPRINGFIELD Hornet, Redfield safety, turned-down bolt, no sights, excellent except stock altered, \$40.00. Savage 23-D Hornet, oiled, checkered, horn tip, excellent, \$22.50. Standard Winchester speedlock 52, bore perfect, \$30.00. H&R USRA 7", perfect, \$20.00. Sixteen pound engraved Stevens 51, 44 type, .22 Peterson #5 octagon 30" barrel, DS triggers, no sights, perfect, \$65.00. Stevens .22 44" DS action only, near perfect, \$12.50. .36 Addicks relined half stock Kentucky, A-1, \$25.00. .40 full stocked Kentucky, good sound condition, \$10.00. Stamp for details. Claude Roderick, Monett, Missouri. 12-37

RARE FLAT Top Single action Frontier model Colt revolver cal. 22 W.R.F., original Colt factory job nickel finish, adjustable rear sight like new, \$55.00. Bull gun, 30-06 heavy barrel by Niedner, Springfield action, fired less than 150 shots, Lyman 48 rear, Redfield front, palm rest, sporter type stock, \$60.00. J. J. Turner, 820 Donaldson Bldg., Minneapolis, Minn. 12-37

FIELD GRADE Lightning Model Browning Over-under, twelve gauge, ventilated rib, automatic ejectors, twin single triggers, modified and full choke, excellent condition, \$68.00. George Mostue, Thief River Falls, Minn. 12-37

NEW SCOTT Monte Carlo B 12-28, 6 1/4 lbs., cost \$600.00 March 10th, ask \$275.00. H. E. Van Winkle, Stone Ridge, N. Y. 12-37

SEDGLEY SPRINGFIELD .06, almost new, fired mostly cast bullets, \$50.00. Sedgley remodeled Winchester S.S. Hornet, very good, very accurate, \$22.00. Bob Heilig, 3025 F, Lincoln, Nebr. 12-37

KRAG Carbine, remodeled. Selected French Walnut Stock Cheekpiece, checkering, Pacific Rear, Ivory front, excellent, \$30.00. Savage 23A Receiver, excellent, \$15.00. Frank Tucek, 900 Courtland Ave., Near 161st St., Bronx, N. Y. 12-37

.38 M&P 6" Blued, Holster, excellent, \$18.50. .44-40 Frontier S.A. 4 1/4", Holster, good, \$12.50. .38 H&R, good, \$3.50. .38 H&R, fair, \$2.00. Fox Terrier puppies, full blood, \$4.00. G. C. Boser, Springville, N. Y. 12-37

BEAUTIFUL, genuine D.W.M. 30 Luger, bore perfect, blueing nearly perfect, new magazine, shells, \$24.00. A 9mm, \$18.75. Imported German Luger stock, perfect, \$7.00. Holland Dickson, Buckeye Lake, Ohio. 12-37

BROWNING AUTO., 16 Modified, excellent, \$35.00. Parker 20-26CM, good, \$35.00. Winchester M12-20Cyl, excellent, \$25.00. Parker VH, 12-28CM, good, \$35.00. Cutler Talley, Box 1158, Atlanta, Ga. 12-37

MODEL 70 220 Swift, excellent to perfect. Hand rubbed stock. Shot less than 50 times, \$50.00. William A. Webster, 148 Waltham St., Watertown, Mass. 12-37

WINCHESTER Model 92, 38-40, Octagon barrel and action perfect, outside very good, Lyman Tang, oil finished Stock, \$21.50 Cash. No Trades. R. H. Swain, 711 E. Main St., Richmond, Va. 12-37

BRAND NEW Enfield, nicely remodeled, scope blocks, no rear, \$20.00. 58 Calibre, muzzle, Springfield, very good, \$4.00. Hornet empties, fired once, 1c. N. A. Randall, 1505 27th St., Moline, Ill. 12-37

WINCHESTER Custom 25-20, Lyman's, engraved, \$25.00. Description on request. Remington 25 r.f. a.s. never fired, \$5.00. Lyman #30 1/2, new \$3.50. 34 Boattails, \$2.50-100. Want — Waffenfabrik Oberndorf 30-06. .22, .22 W.R.F. and H.P. hunting rifles. Pay cash. F. C. Culler, Alliance, Ohio. 12-37

BALLARD 32-40 Breechloader, d.s. triggers, heavy P.G. action bore good, \$28.00. Lee straight pull very good, \$25.00. Stamps please. J. J. Muntener, 35 Eckel Road, Little Ferry, N. J. 12-37

ENFIELD SPORTER, Pacific Stock, Lyman 48R, sling, good, \$25.00. Photograph. W. Koch, 1324A Hawthorne Place, Richmond Heights, Mo. 12-37

BUSCH 24 x 55, \$90.00. Zeiss 8 x 30, \$40.00. Goetz 12 x 25, \$40.00; 6 x 24; 8 x 20, \$30.00. B&L 6 x 30, \$23.00. Others cheap. Lyman 438, mounts, \$12.50. Gerard 4X, mount, \$40.00. Winchester B5, mounts, \$20.00. Seth-Thomas ships clock, \$9.00. 7 m/m Mauser sporter, fine, \$32.00. New Enfield sporter, Stoeger stock, Pacific sights, \$30.00. 22 Niedner Magnum Krag sporter, including dies, \$32.00. 22HP Savage M99, \$22.00. Hornet SS Winchester, \$20.00. 32-40 and 38-55, \$18.00. 30 x 4" Eagle Luger, \$26.00. 9 m/m Luger, \$17.00. 38 and 45 auto. \$16.00. Bisley 38-40, \$16.00. Frontier 45, \$14.00. Colt special 38-4", \$13.00. M&P special 38-6", \$18.00. M&P 32-20-6", \$12.00. Bargain List stamp. John Smith, 920 Federal, Camden, N. J. 12-37

LATHE: 11" x 4-4" Barnes with 1/2 hp. motor, \$75.00. Small Goodell-Pratt lathe, 24" bed, Universal chuck, \$15.00. Want Noske or other scope: Howe's Modern Gunsmithing. Dan Lake, Lake City, Kansas. 12-37

WINCHESTER AUTO., 401, Recoil pad, forehand cracked, otherwise gun in very good condition, \$25.00. Colt Super 38 Auto., extra 45 slide, new barrel, magazine Stoeger grips, good, \$40.00. Rem., Auto. 25 Model 8, good, \$25.00. Hollis S. Dolan, 1654 5th Avenue, Los Angeles, California. 12-37

4 1/2" K-22, vg in, good out, \$22.50. or vg Winchester 61 with peep. Henry Stebbins, R. D. 2, Madison Heights, Virginia. 12-37

FOX 16, C.E. Grade, ejectors, 30 in. Modified and full 2 1/2-1 1/4-1 1/4. Pad. 6 1/4 lbs., excellent, \$75.00. C. E. Smith, Route 1, Box 22, Brentwood, Calif. 12-37

SMITH PERFECTED Model, single shot, 22, like brand new inside out, \$40.00. R. L. Chrisman, 3302 Troost, Kansas City, Mo. 12-37

WINCHESTER 16 gauge model 12 standard, full choke, excellent, \$22.50. Leslie Lindahl, Central City, Nebraska. 12-37

FINE ENGLISH 20, \$175.00. Imported over-  
under 16, \$125.00. Sedgeley Hornet with scope,  
\$80.00. 52 Sporter, \$55.00. All excellent to perfect.  
No trades. E. Benson Freeman, 1645 Pelham Road,  
Atlanta, Ga. 12-37

NEW AND USED rifles, pistols, shotguns  
and telescopes. 10-X goods at special prices.  
Give shooting equipment for Christmas. We  
trade. Buckeye Tube Sight Co., Delaware,  
Ohio. 12-37

WINCHESTER 1876, \$6.00. Vetterli \$4.00.  
Spencer Carbine, \$4.00. Springfield 45-70, \$3.00.  
All very fair. Luger 4 inch 30 cal., good, \$14.00.  
Want old Smith & Wessons. Raymond Alquist, Clay  
Center, Kansas. 12-37

SPRINGFIELD Sporter, barrel and action very  
good, scabbard, \$40.00. German Army rifle, nearly  
new 30-06 barrel, action and stock good, Lyman 48,  
\$20.00. 30-06 N.M. barrel and receiver, excellent,  
fitted for Lyman 48, service stock, \$30.00. Krag,  
30 in., very good, \$12.00. 7.62 Russian, good, 100  
cartridges, \$10.00. 41 cal. Swiss, fair, 100 cartridges,  
\$7.50. 45/70 Springfield, excellent, \$5.00. 30-06  
Enfield, Redfield rear, fair, \$10.00. Dean Potter,  
Frankfort, Kansas. 12-37

SAVAGE 25-20 Mod. B, perfect, oil-finished, sling,  
New Weaver 329 with post and dust caps; Box Hi-  
Speeds, Sacrifice, \$25.50. Rifle, \$19.50. William  
Yunker, 1246 E. Ninth St., Long Beach, Calif.  
12-37

SPRINGFIELD 24" new nickelsteel barrel, \$50.00.  
New Match Krag, Lyman, 30", \$30.00. Winchester  
16 ga. pump. Polychoke, pad, wood by Linden,  
\$50.00. 20 ga. Remington, two barrels, pad, like new,  
\$50.00. Three percussion Kentuckies in shooting  
order, one fancy, molds and horns, lot, \$90.00. Un-  
fired linen cartridge Sharps carbine, \$7.50. Unfired  
Maynard percussion carbine, \$10.00. Double-set  
40-50 Sharps-Phoenix, \$10.00. Double-set Hepburn-  
Remington, new stock, \$12.00. Fine Remington-  
Keene, \$25.00. 50-70 Sharps carbine, \$4.00. Two  
good Bisleys, each, \$15.00. Smith 5-shot .41 rimfire,  
perfect, \$30.00. Unfired 1916 Waffenfabrik 8mm  
musket, \$20.00. Winchester S.S. 22 musket, Lyman,  
\$15.00. C. L. Eimer, 106 W. Greenwood St., Del  
Rio, Texas. 12-37

BOND TYPE "D" 38 Spec. press, \$15.00. Ideal  
#3 30-40 Tool, with bullet sizer, \$3.50. 20X Wollensak,  
\$4.00. 12 1/2 X Wollensak, \$3.00. 23 Savage  
"Fair", Sears 4X, no other sights, \$16.00. \$95.00  
I.C.S. Credit for Target Arms. Frank Patterson, 317  
W. 9th, Hutchinson, Kansas. 12-37

10A REMINGTON 12 ga. repeater with extra  
barrel \$40.00. Montague Comet Fly Rod, \$5.00.  
Pflueger Summit Casting Reel, \$5.00. All Excellent.  
Woodman 4 1/2", as new, \$25.00. Oreno Automatic  
Fly Reel new enamel line, \$6.00. #14 Heddon Fly  
Rod with alum. case, \$8.00. All perfect. J. P.  
Prince, 1852 Princeton Ave., Birmingham, Ala.  
12-37

NEW H&R U.S.R.A. Model 8" barrel, \$22.50.  
Winchester Schutzen Hornet D.S. triggers, two stocks.  
Lyman sights, scope blocks, very accurate. Harry  
E. Boughton, 1310 Jackson Ave., Lakewood, Ohio.  
12-37

SAVAGE 23AA, very good, 4X Wollensak, extra  
mounts, bases, sling, 6 clips, \$19.00. Cash, Win. 94  
32-40, 26", fair plus, \$10.00. Gilbert Combs, 521  
Center St., S. Orange, N. J. 12-37

WINCHESTER 410 pump, standard, full, ex-  
cellent, \$25.00. 250 Savage lever, \$30.00. No  
trades. Back numbers Rifleman and Geographic.  
Norman Hill, Box 27, Jacksonville, Florida. 12-37

WINCHESTER 54, cal. 257, Target Model Stock,  
sling, open sights, bases and Feccker 6 x 1 1/4 scope and  
mounts. Excellent and extremely accurate. Com-  
plete, \$85.00. G. A. Staniar, 62 Rossmore Place,  
Belleville, N. J. 12-37

7.62 RUSSIAN, Bayonet, sling, 20 Ctr's., ex-  
cellent, \$14.00. Sharp Hankins Carbine, .50 cal.,  
\$10.00. French Knife, \$1.50. Civil War Cannon  
Balls, \$1.00. John B. Kennedy, Troy, Kansas.  
12-37

SAVAGE M19 Hornet, factory sight #10 and  
Weaver scope #444, Type S low mount. Excellent.  
Shott 175 times, both \$40.00. Rifle \$34.00. Fred  
Stennett, Princeton, W. Va. 12-37

TWO Genuine Buffalo robes and coat. One Muskr-  
at fur-lined broad-cloth coat. One Sheepskin Arctic  
sleeping bag, \$200.00 value, or separate. H. M.  
Whitcomb, Albany, Wis. 12-37

30-06 SPRINGFIELD, new barrel by F.A. Regu-  
lation and 17A and 48S, very good, \$35.00. Genuine  
8 mm Waffenfabrik Mauser, Mannlicher stock, double  
set triggers, not a rebuilt rifle, very good, \$100.00.  
45 S&W 1917, good, \$15.00. 45X French draw tube  
spotting scope, case, good, \$10.00. B&L type scope  
stand, very good, \$6.00. J. H. Stevenson, 816 Fed-  
eral St., Camden, N. J. 12-37

WINCHESTER 22 Rifle, single shot, relined by  
Diller, excellent. Sights, Lyman rear; Remington ad-  
justable, muzzle, \$16.00. John Hollingsworth, Nor-  
wood, Mass. 12-37

## STOEGER'S QUALITY STOCKS and RESTOCKING for CHRISTMAS

**\$5 "STOCKS THAT FIT"**  
SATISFACTION GUARANTEED OR MONEY REFUNDED

Peerless unfinished stock, as illustrated, fully in-  
letted and carefully shaped, requires about one day  
to finish. For Enfield, Springfield, Mauser, Krag,  
Russian or Lebel.

Selected French Walnut, extra ..... **\$2.50** Peerless finished stock with all accessories ..... **\$12.50**

Complete Peerless Remodeling of Customer's Military rifle, exactly as illustrated (less sling), including new sporting stock with ebony tip, steel butt plate and pistol grip, Redfield Receiver sight, hooded ramp, front sight, detachable swivels, complete rebluing.

Enfield (illustrated), ..... **\$27.50** Krag or Russian ..... **\$24** French Walnut, if desired, extra ..... **\$2.50**

Complete Olympic DeLuxe Remodeling of customer's rifle, as illustrated, with Lyman 48, Redfield hooded ram, stock of fine French Walnut, checked steel butt plate, designed exclusively for fine match work. For Springfield or Enfield ..... **\$48**

Olympic unfinished stock, of French Walnut, as illus-  
trated, requires about a day to finish, for Enfield, Spring-  
field or Winchester ..... **\$8**

Olympic finished stock with fittings, Price ..... **\$15**

### CATALOG & HANDBOOK NO. 29

JUST OUT! New 1938 Issue—320 PAGES (Size 8 1/2" x 10 1/2") All the New Guns. Latest Revisions, NEW Prices. NEW Items. NEW Ballistics. 13,250 items, 4,100 illus. Everything for the shooter, Parts, Remodeling, Accessories, etc.

\* Send 50c in Check, M. O. Coin or stamps to America's Largest Gun House.

**A. F. STOEGER, INC.**  
507 FIFTH AVE., NEW YORK, N. Y.

**MEEPOS Quick Detachable Sling Swivel**  
Instantly detached. One Sling may be used on any Number of Rifles if equipped with extra plates. Rotary motion allows use of Sling in any position. Swivels made in 1 inch and 1 1/4 inch loops. Price per pair, \$2.00. Extra plates and screws, pair, 75c.

M. MEEPOS, Gunsmith  
Los Angeles, Calif.

119 E. Second St.

**RICE PEEP SIGHT for Springfield**

Rifles, \$1.50; for the Krag, \$1.00. Elevation and windage. Easily mounted. Krag Barrel Receiver Filleter, 65c. Springfield Sporter Butt Plates, 50c. Grip Caps, 35c. Satisfaction or money refunded.

**LEROY RICE**  
356—7th St., Elyria, Ohio

**COCKER SPANIEL** Puppies, five months. Also grown dogs, American and English types. Finest bloodlines from hardy field trained and show stock. Solid and parti-colors. Several fine studs. Goldenstate Kennels (Registered), 1355 Scenic Avenue, Berkeley, Calif. 12-37

22 O.M.T. Pachmayr, perfect, \$30.00; .45 Auto, new barrel, outside fair, \$12.50; .45 Auto., excellent, \$27.50. Want Type "B" N.M. Stock. E. Thomson, 23 Pinckney, Greenville, S. C.

PARKER GH 12-26, VH 12-26 single trigger, VH 16 two sets barrels, Fox AE 20-26, new, \$50.00 each. Winchester 54 & 48 250-3000, perfect, \$45.00, also 30-06 same. Marlin 39, perfect, \$16.50. Target-spot 10X, new \$40.00; 5A new \$27.50; 438 click, new, \$16.00. Leica G. Summer F.2, new \$150.00. H. E. Van Winkle, Stone Ridge, N. Y. 12-37

REMINGTON-HEPBURN, H.B. 1" x 30". Re-lined by Diller to 22 cal. Scope blocks, no iron sights. Restocked, High comb. Pacific Buttplate, very accurate, \$35.00. Colt C.B., pocket model. Fluted cyl., excellent, \$12.00. A. T. Dunham, 7119 Amherst, St. Louis, Mo. 12-37

**Merry Xmas-Gun Bugs**

### BADGER KIT 24" or 27" - \$5.85

Badger Tripod Scope Stand, \$4.50.  
" Scope Cases, \$2.50, \$2.75 and \$3.00.  
" Sheepskin mitt, \$1.00.  
Wool lined full length gun cover, \$4.95.  
10X Arxistart Shooting Coat, \$8.00.  
10X Shooting Gloves, \$2.00 and \$2.50.  
—and many other items.

**BADGER SHOOTERS SUPPLY**  
Owen, Wisconsin  
"Lee" Bulgrin "Wes" Hansche

**BOND TYPE "D" LOADING PRESS FOR .38 & .44 S. & W. SPEC. .45 COLT—45 AUTO & RIM**

**\$15.00 FOR CHRISTMAS ONLY**

**MODERN-BOND CORP.**  
813 W. 5th ST.  
WILMINGTON, DEL.



# Winter Vacations

BUY THE BEST AND  
SAVE MONEY!



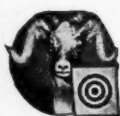
WE have more than the idea, we have the working policy. And the facts and figures to support it, to prove to you that the best costs less, when you know how to buy a winter vacation.

BEFORE you commit yourself to your customary routine on a winter jaunt, we want you to know about our policy of guest entertainment and the most amazing vacation ever conceived.

FOR that purpose, we have established staffs of vacation specialists in New York and Chicago, who will call on you personally (even in Boston, Philadelphia and Washington) to tell you about this new idea in resort hotel service, answer all your questions about this new idea in resort hotel service, answer all your questions about Florida vacations in general, supply you with facts and figures to gauge your vacation costs in advance. You do not obligate yourself in any way by requesting this advisory service. If you're too far away for a man-to-man interview, we can supply your requests by letter.

WE know we can offer you important economies, as well as extraordinary privileges and facilities that will expand your recreational opportunities to include all the fun in this glamorous Miami playground. Enlarge your vacation, while slicing down your expenses!

• Write, wire or telephone  
our northern offices: NEW YORK—551  
Fifth Ave., Room 712, telephone MUrray  
Hill 2-0521. CHICAGO—120 S. LaSalle  
St., Room 1265, telephone Franklin 4645.



## Ideal RELOADING TOOLS

give all the advantages of the tong type  
of tool with the effect of the straight  
line type



Ideal Single Bullet  
Mould. Interchangeable  
blocks permit use of  
many different bullet  
moulds. \$5.00.

Midrange bullet for .38  
Special revolvers. Over  
700 different bullet  
moulds available.

Use the No. 5 Ideal Powder Measure  
to throw accurate charges for all smoke-  
less powders. \$7.50.



358395  
148 Grs.



### Practical and Complete

Recommended for  
its thorough treat-  
ment of all loading  
operations. Clear,  
concise. Data on  
powders and ballis-  
tics. List of 281  
bullets. 160 pages,  
illustrated.

Sent **50c**  
postpaid,  
Free Booklet

THE LYMAN GUN SIGHT CORP.  
90 West St., Middlefield, Conn.

## Watch the RELOADER NEWS

for information about  
Hercules Rifle, Pistol  
and Shotgun Powders.

Sporting Powder Division  
HERCULES POWDER  
COMPANY

980 King Street Wilmington, Delaware

## THE HAWKINS RECOIL PAD



Postpaid \$1.75, \$2.75, \$3.25. Give a Hawkins recoil pad  
for Christmas.  
THE CUSHION PAD CORP., Box 81, Sioux Falls, S. D.

.25, .270 and .30 calibre gas checks, \$1.10 per  
1000, postpaid. R. Kampen, 557 Pearl Ave.,  
Rockford, Illinois. 12-37

ENFIELD Sporter, Marlin Scope, no iron sights,  
needs blueing where sights were removed, \$28.00.  
Ideal No. 10 250 Savage with 20 factory primed  
cases; 150 Western bullets; 200 primers, \$6.00. Ideal  
No. 4 32-20 with mold, \$4.00. Ideal 22-55 gr. mold,  
\$2.00. Want .257 Remington. William Cullings,  
LeRoy, N. Y. 12-37

GREENER BARGAIN. High-grade Special  
Greener 10 gauge hammerless. Crossbolt action  
28" Nitro steel barrels, F&M for decoy shoot-  
ing. Set 32" bbls. chambered 2 7/8" full, for high  
ducks. Fine stock 14 1/4 x 1 1/2 x 2 1/2. Priced less  
than half original cost. Condition fine, \$175.00  
Cash. W. G. C. Kimball, Woburn, Mass. 12-37

BARGAIN: Leica F., excellent, black, slow speeds,  
collapsible Summar. cost \$216.00, sell, \$130.00.  
Elmar 135 Telephoto, focussing, cost \$90.00, sell  
\$45.00. Elmar wide angle, cost \$54.00, sell, \$25.00.  
Vidom Finder, perfect, \$12.00. Photocrop, good,  
\$12.00. Complete outfit with new combination case.  
Reelo Tank, sunshade, self-timer, cost, \$440.00, sell  
\$210.00. Want Super-Targetspot. Lawrence Bray-  
mer, Lahaska, Penna. 12-37

REMINGTON 37 Rangemaster, serial #00351,  
perfect, \$55.00. K. D. Henry, 7602 Appoline Ave.,  
Dearborn, Michigan. 12-37

REMINGTON M30S, #48, 30-06, \$39.50;  
Mauser Sporter 30-06, Western peep, new 26"  
barrel, \$28.00; Krag Sporter, Western peep,  
Winchester 24" barrel, \$22.00; Winchester M94,  
32-spl. 22", \$11.50; Winchester M94, 32-40, 26"  
nickel steel, \$12.50; Winchester M94, 30-40, 28",  
\$16.00; Winchester M86, 40-70, \$8.00; Marlin  
38-55, new 26" half oct., smokeless steel barrel,  
pistol grip checkered, \$19.00; 400, Krag Ctdgs.  
O.P. \$4.50 hundred. Ray Nelson, Roy, Utah.  
12-37

REMINGTON M12 .22 Short, good to vg. Weaver  
3X, \$14.50; Colt .45 Commercial, arched housing,  
\$19.00; Reising .22 Auto., excellent, \$23.00; Woods-  
man 6 1/2", \$20.00; Colt .380 NP, pearl grips, vg.  
\$16.50; Remington M25 .32-20, 24", like new.  
Weaver 3X, \$19.50. Winchester 90, new 62 barrel,  
reblued, \$10.50. C. Hennig, Benson Station, Omaha,  
Nebr. 12-37

### SELL OR TRADE

9 M/M MAUSER Pistol. Fair. Best offer. Ed.  
Coffman, 203 S. 14th, Richmond, Ind. 12-37

TRANSMITTER, Power Amplifier, Speaker and  
Eliminators. RIFLEMAN, February 1930 to 1936.  
Guns or what? Walter Wise, Hurrell St., McKees-  
port, Pa. 12-37

BEAUTIFUL mounted game heads: Moose,  
Elk, Sheep, Antelope, Deer. Guaranteed. John  
J. Lottes, Cody, Wyoming. 12-37

SALE OR TRADE 6.5 Steyer Mannlicher 26"  
fancy stock engraved action, fair. Want \$400.00 or  
Enfield, 30S actions, Ideal #5, Zeiss or Noske scope.  
Virgil Taber, #988, Moffett Field, Calif. 12-37

SALE OR TRADE Remington Sportsman 16 gauge  
two barrels, Mod. Cutts Compensator, good, \$40.00.  
Take 38 Spec. Smith or Colt Target Sights part pay-  
ment. Leon B. Wilson, Ariel Building, Erie, Penna.  
12-37

TRADE Colts New Service 44 Special 4" barrel,  
excellent to very good. WANT—Colts Detective  
Special, 38 Special. State condition. Chas. E.  
Shenoha, 5918 So. Richmond Street, Chicago, Illinois.  
12-37

VOIGTLANDER SUPERB CAMERA. Skopar F3.5  
lens, Compur shutter with delayed action. Takes 12  
pictures 2 1/4 by 2 1/4 on No. 120 roll film. New Con-  
dition, cost \$89.50. Fine for advanced worker.  
Want trap gun 30 inch barrel ventilated rib. Dr.  
A. D. Caldwell, Bancroft, Nebr. 12-37

DELUXE CUSTOM-BUILT 30-06 Mauser. Beau-  
tifully Engraved, sell for \$135.00 or trade for .300  
Magnum Mauser. Norman Maitner, 1561 Noe Street,  
San Francisco, Calif. 12-37

ITHACA MAGNUM 10 single trigger field special,  
32", been fired 36 shots, otherwise factory condition,  
and 64 3 1/2" shells, \$50.00, or trade for 70, 257, in  
like condition. B. H. DeWitt, Gilman City, Mo.  
12-37

LEFEVER single trap, very good \$24.00, or Pacific  
tool, EE's, or what? .22 O.M.T. very good, \$25.00,  
or vg. 6 1/2" Woodsman. .37 Remington, excellent to  
perfect, \$60.00, or trade for? Krag Hornet vg.  
\$25.00. E. C. Haug, 614 Scholten Ct., Kalamazoo,  
Michigan. 12-37

6 1/2" WOODSMAN and Holster, very good in, good  
out, \$17.50. Krag rifle, good with 120 factory am-  
munition \$15.00. 45-70 Springfield 40 loads. D. V.  
Firewood, Smith Center, Kans. 12-37

8X TARGETSPOT, excellent, \$37.50 or 4X Noske  
A. or 4X Zeiss or .220 or .257. Charles F. Nash,  
Edgewood, Calif. 12-37

BAKER STERLING Trap, 12, 32, full, 14 1/4 x  
1 1/2 x 1 1/2, good, with case, \$60.00. Graflex 1A, Zeiss  
F 6.3, good, with case, \$25.00. Royal portable type-  
writer, like new, \$40.00. Chris Schilling muzzle-  
loading rifle, good, \$15.00. Modern Gunsmithing by  
Howe, new, \$12.00. Want Zeiss or Hensoldt Ziel-  
klein, Zielyt or Weaver 330S, bench lathe or light  
double rifle. Colon Raab, R. D. No. 2, Batavia,  
N. Y. 12-37

10-X COATS, GUNCASES, GLOVES  
Write For Folder  
**GUILE** ELECTRIC  
CLEAN, N. Y.

THE AMERICAN RIFLEMAN



**SUPER TARGETSPOT 10X**, perfect, \$60.00.  
Win. 52, Hi-Vaver sights, excellent, \$45.00. B&L  
Prismatic, additional 12.8X eyepiece, perfect, \$50.00.  
Wm. Tell target pistol and case, excellent, \$50.00.  
Want perfect Hornet or 220. S. J. Lanning, 2015  
W. Horne, Sioux City, Iowa. 12-37

**SELL OR TRADE** Remington Auto Barrel, 20  
Cyl., excellent: 38 O.M.T., fair. Leo Vaden, 392  
Julien Ave., Akron, Ohio. 12-37

**IDEAL MOLD #308329**. #3 .38 tool, extra seat-  
ing screw, resizing die. Newsome electric 30 lb. lead  
pot. Mold & pot very good. Tool fair. Die new,  
\$15.00. Clean '18 30-06 @ 13¢ round. Want .45  
Frontier. Dr. R. E. Englert, 1305 E. 63rd St., Chi-  
cago, Ill. 12-37

**GRIFIN & HOWE 25** Roberts Springfield, 26  
inch heavy barrel, cherry stock, checkpiece, recoil  
pad. Redfield micrometer rear. Ideal dies, mould  
blocks, cases, excellent, \$75.00. D.W.M. Luger,  
9 mm, 8 inch barrel, cartridges, very good \$30.00.  
Lyman 438 scope, click mounts, excellent, \$17.50.  
Colt 31 percussion, 5 inch, serviceable, \$7.50. Waf-  
fenfabrik Mauser 8 mm, 98 infantry rifle, good,  
\$10.00. Harold Barnhart, Box 13, Chillicothe, Ohio.  
12-37

**MOD. 70 Winchester 220** Swift with Fecker  
4 Power Scope, very good, \$70.00 or trade for  
VHE Parker 20. German Three barrel 16  
gauge 9.3 x 72, very good, \$90.00. Riflemen's  
Exchange, 3511 So. Figueroa St., Los Angeles,  
California. 12-37

**VERY GOOD Winchester 54**, .270 with Weaver  
3-30, sling, B&M mold 279136, cases. Want screw  
cutting lathe. Bede Dahmus, R. R. 4, Dickinson,  
N. Dak. 12-37

**SPRINGER Spaniel** pups, female, 4 years,  
registered. Ideal 32-20 tools \$5.00. Want 52  
Winchester, Colt Woodsman, Springfield, En-  
field, Krag sports, 30-06 Tools. Al Williams,  
Berea, Ohio. 12-37

**BURTON'S Arabian Nights**, 17 vol., binding good,  
dingy: inside fine, \$51.00 or Win. 220 or binoculars.  
Neil E. Annable, Bellevue, Ky. 12-37

**COLT SA. 45**, \$10.00; 38 Auto, \$12.00; 22  
O.M.T., Holster, \$22.50; Ithaca 10 gauge, \$25.00;  
#2 ejector, \$25.00; Win. Schutzen stock, \$25.00;  
Royal typewriter, \$25.00; V.P. Special Kodak,  
\$12.50. Want K22, K38, Win. heavy S.S. Frank  
Wilkinson, 82 Monticello, Buffalo, N. Y. 12-37

**NEW WINCHESTER Model 54**, .257 Target  
model, \$69.50. Weaver #29S scope, \$10.50 pre-  
paid. Free Catalog! J. Warshall & Sons, First  
& Madison-BB, Seattle, Wash. 12-37

**FOR SELL OR TRADE:** HE GRADE Fox 20 bore  
ejector 32" full, excellent, \$40.00. Colt Bisley .44  
Special with fancy Heiser belt and holster, \$35.00.  
WANT—Hi-velocity small bore. Dunlap Roddey,  
Rock Hill, S. C. 12-37

**MARTIN b flat tenor saxophone**, case, accessories,  
cost \$190.00, perfect. Best offer cash or trade. E.  
Keltner, 422 E. 77th Street, N. Y. C. 12-37

**NEW 71 Win.** \$45.00 Cash or trade for Win. 70.  
.257 preferred. Win. A5 scope, good, for hunting  
scope. Earl Price, Lodi, Wis. 12-37

**POINTER PUPS** whelped April 7th. Grandsons  
Champion Muscle Shoals Jake, Champion Ireland  
Greymist. Beauties. Registered, \$25.00 approval.  
Want pump or automatic. Cutts compensator. Scope.  
Woodsman. Stanley Murray, Rockport, Indiana.  
12-37

**HAVE SPRINGFIELD**, new, excellent. Krag  
with #438 scope, fine Hotchkiss carbine, Russian  
and other. Want 6 m/m Lee, Schmidt-Rubin,  
wartime arms, lists, offers. A. J. O'Grady,  
Sisseton, S. D. 12-37

**FINE HOFFMAN 375 H. & H. MAUSER**, 4 1/2"  
Woodsman, \$23.50, 38 M&P fine scabbard, belt,  
\$30.00, Winchester 63 with 29S scope, \$32.50. All  
perfect. Want Custom made .22/3000, 30-06, 270.  
T. C. Stromberg, Grandfield, Okla. 12-37

.38 S&W, good, \$8.00. Winchester 69, perfect,  
\$10.00. Hi-Standard model "C" 4 1/2 inch, perfect,  
\$15.00. .45-70 Springfield, very good, \$3.50. High  
grade S.S. target pistol, Martini action, set triggers,  
10 1/4 inch, excellent, cost \$132.00 new. Want New  
Winchester 52, or O.M. Colt .22. C. Baldwin, 2024  
So. St. Aubin, Sioux City, Iowa. 12-37

54 N.R.A. Hornet, inside perfect, outside excellent,  
Lyman 48, \$45.00; Lyman 438, micrometer, very  
good, \$15.00; Krag action, \$6.00; 32-40 Pope-Ballard  
Schutzen, false muzzle, all accessories, \$80.00;  
Want: Perfect DCM Sporter, Borchardt Schutzen.  
J. F. Bartlett, 36 Fairfax Court, Huntington, W. Va.  
12-37

**A CHRISTMAS SUGGESTION:**  
An order of ammunition, made by  
SMITH'S CUSTOM LOADS  
Middlebury, Vermont

**The Greatest Knife a Sportsman Ever Carried**

Keen as a razor—shaped and tempered for outdoor service—modeled to fit the hand with a sure, easy grip. Just the knife you need for cutting your way through underbrush, sharpening tent stakes, dressing game, slicing bacon, etc. Marble Woodcraft No. 49 Leather Handle, 4 1/2 in. blade, with Leather Sheath \$2.00. This knife is just one item in the famous line of—

Also with Stag Handle No. 50—\$3.00

## MARBLE'S OUTING EQUIPMENT

"For Every Hour in the Open"

**No. 60 Sport** — A great favorite in a compact knife. Very practical shaped blade. Colorful buffed leather handle, 4" blade. Price, with sheath, \$1.50.

**No. 545 Expert** — For those who prefer a thin, keen edge for dressing skins and furs. Back of blade designed for scraping skins. 5" blade. Price, with sheath, \$2.50.

**Waterproof Match Box** — Keeps matches always dry. May save lives. Carry in pocket, on chain or belt. No. 181, 60c.

**Marble's Coat Compass** — Fastens to coat or sleeve. Guaranteed accurate. No. 182, stationary dial, \$1.25. No. 082, revolving dial, \$1.50.

Marble's Products are sold by most good dealers or mailed postpaid on receipt of price. Write for complete catalog.

**Marble Arms & Mfg. Co.** 502 Delta Ave., (A-143) Gladstone, Mich., U.S.A.

**Lawrence STEER-HIDE HOLSTERS and CARTRIDGE BELTS**

**No. 35 Cartridge Belt**, with sewn loops. Give waist measurement and caliber of cartridge. Postage prepaid. **Flower stamped** Plain 3 inch width . . . \$8.75 \$4.30 2 1/2 inch width . . . \$8.25 \$4.00

**No. 271 Holster**, Hand made, molded over forms to exactly fit your revolver, and lock stitched. Give revolver and automatic model and barrel length or send tracing. Postage prepaid. **Flower stamped** . . . \$5.25 Plain . . . \$3.50

If dealer cannot supply send order direct. Send 3c stamp for Sporting Goods catalog.

**No. 271 The GEORGE LAWRENCE CO.** Since 1857 PORTLAND, OREGON

**.22 CAL. SISK BULLETS**

Will make superbly small groups that a rifleman will ever remember, together with the pal that gave the bullets.

Prepaid prices for Christmas delivery in the U. S.  
Hornet, 35 or 40 Gr., 100, 90¢; 500, \$4.25  
Lovell, 50 Grain, 100, \$1.35; 500, \$6.35  
Swift, 55 Grain, 100, \$1.60; 500, \$7.50  
Delivered on day you request.

**R. B. SISK IOWA PARK, TEXAS**

## TRADE

**NEW LYMAN Extension Sight** for \$7.10 and excellent Lyman 48; new B&L Prismatic for \$27.00 and excellent B&L Drawtube; new Super Targetspot, \$52.50 and excellent B&L Drawtube; new Targetspot \$46.00 and excellent Wollensak 20X Scope. Zeppelin Arms, Akron, Ohio. 12-37

**TRADE** Fine Gibson A2 Mandolin. Want 52 Winchester or Shotgun. William Badger, 16 Woodland Road, Maplewood, N. J. 12-37

**TRADE** Excellent Lyman 5A with click mounts for O.M. 38, or what have you? Hugh Beasley, Greenwood, S. C. 12-37

# CHRISTMAS PRESENTS FOR HIM

Randle Shooting Mitt, 3 sizes.....	\$1.50
10-X De Luxe Shooting Coat.....	6.50
10-X Aristocrat Shooting Coat.....	8.00
Ta-Pat-Co Shooting Mat No. 40.....	3.25
Ta-Pat-Co Shooting Mat No. 41.....	5.95
B & L Draw Tube Scope, 20X.....	27.00
B & L Prismatic Scope, 19.5X.....	49.50
Mossberg Spotshot Scope, 20X.....	16.45
Wollensak draw tube scope, 20X.....	12.50
Randle Scope Case, leather.....	4.00
Randle Scope Stand, folding.....	5.75
Randle Rifle Rest.....	.35
Randle .22 Ammunition Block.....	.50
Sling Tension Equalizer.....	1.00
Wilder Sling Pad.....	.85
Super Targetspot Scope, 10, 12 or 15X	75.00
King Rifleite Shooting Glasses.....	10.00
Wilder Score Book.....	1.00
Parker Celluloid Cov'd Rods, .22.....	2.00
Same Rod, .30 Cal.....	2.25
B & M Stainless Rods, 22 or 30.....	2.25
Marble Steel Rods, 22 or 30, 36".....	1.00
Marble three Piece Rods, 22 or 30.....	1.25
Berlin Sheepskin Case for 52.....	4.75
Sporty Sheepskin Case for 52.....	6.00
Lyman 77 Front Sight with base.....	4.00
Redfield 63 Globe with base.....	4.00
Merit Aperture Eye-piece.....	2.25
Parker Six-Hole Eyepiece.....	2.00
Vaver Multi-Aperture Disc.....	1.00
Parker Bronze Brushes, all sizes.....	.40
Parker Bristle Brushes.....	.40
Parker Scourers, Bronze or Bristle.....	.50
Rig, Rust Inhibiting Glease, tube.....	.25
Rig, 1/4 pound can.....	.50
Fuller's Anti-Rust Oil, 2 oz.....	.35
Hoppe's No. 9, 2 oz.....	.35
Fiendoli, 2 oz. handy can.....	.40
Hoppe's Gun Cleaning Pack.....	1.00
Pacific Reloading Tool.....	20.50
B & M Model 28 Reloading Tool.....	14.00
Ideal Sizer and Lubricator.....	10.00
Pacific Scale with weights.....	7.00
Fairbanks-Morse Powder Scale.....	17.50
B & M Visible Powder Measure.....	8.00
Remington Model 37 Match Rifle.....	69.50
Winchester 52, Marksman Stock heavy barrel with Lyman 48-FH, Lyman	
77 Front.....	71.25
Marble Goss, Lyman 77 Front.....	71.80
Lyman Extension, 77 Front.....	72.90
Vaver Extension 35, Vaver Front.....	78.40
Specially selected, retested, add.....	5.00

All above items sent prepaid  
Official N. R. A. Targets  
Send for free catalogue

**THURMAN RANDLE & CO.**  
208 N. AKARD ST.,  
DALLAS, TEXAS

# 

33 Only! Brand New Remington bolt action rifles, \$30 S.L. in 25 cal. rimless with 48 Lyman and hooded front sight. Original factory boxes. Regular price \$69.95.

STOP! LOOK! READ! "House of Hudson" BARGAINS!!

THE FOLLOWING AMMUNITION PRICED PER HUNDRED

KING VENTILATED RIBS

With Micrometered Windage and Elevation Adjustments with "Click" and Lock, Reflector and Red White Gold or Undercut Black Sights

NOW READY FOR COLT OFFICERS MODELS

King "Cockeyed" Hammers and other special work to all types of revolvers. Stamp for circular "A" and price list.

KING GUN SIGHT CO., 171-173 Second Street, SAN FRANCISCO, CALIF.

AGAIN!

We offer bargains in Used Guns

ORDER BY NUMBER

1. 45 Colt D.A., Good. \$10.00

2. 45 Colt D.A., Good. 10.00

3. 45 S&W D.A., V. Good. 11.50

4. 45 New Service Target, Fair. 15.00

5. Officers Mod. Colt 7 1/2", V. Good 23.50

6. Camp Perry Mod. 10", Fair. 15.00

7. Super 38, Good. 22.50

8. Colt Army Spec. 6", V. Good. 22.00

9. Woodsman 4 1/2", Excellent. 26.50

10. 380 Colt Auto, Bbl. fair, Out. 10.00

11. 32 Auto Colt, Fair. 10.00

12. 380 Colt Auto, Bbl. fair, Out. 10.00

13. 32 Auto Colt, Fair. 9.85

14. 32 Auto Colt, Good. 14.50

15. Colt 32 Auto, V. Good. 16.00

16. Colt 32 Auto, Bbl. fair, Out good. 10.00

17. Colt 45 D.A., Fair. 9.00

18. Ortoigo 380 Auto, Fair. 4.50

19. 38 S&W-M & P 4", Pearl Grip, Good. 23.50

20. S&W 32-20 M-P 4", Fair. 16.00

21. S&W 38 M-P 4", Good. 22.00

22. Colt Police Pos. 38 S&W-6", Good. 14.00

23. Colt Army Special 4" 38 S&W Special, Fair. 15.00

24. Colt Police Pos. 6" 32-20, Good. 19.00

25. S&W 32 long 4" Pearl Grip, Fair. 11.50

26. S&W 38 Reg. Police, Fair. 10.00

We honestly believe the above guns are excellent buys at these prices.

Shipped EXPRESS PREPAID any place in the United States.

DECKER BROS.

209 Federal Ave., Mason City, Iowa

★

RELOADING TOOL HEADQUARTERS

Reloading Tools, Bullets, Bullet Moulds, Powders, Primers and other accessories. Prompt Service. Send stamp for folder.

MAJOR EARL NARAMORE

YALEVILLE CONN.

KNOCK-EM-COLD!

36 knock-out blows without flinches by 15c famous Police Jiu Jitsu instructor

LEARN POLICE JIU JITSU - A little jab with tip of fingers, or strike with edge of hand to right spot and tough guys go out like a light. Also many one fingered headlock breaks. Northwest "Mounties" use Jorgensen's system. (2 Men must be Jiu Jitsu experts. He has personally taught many in U.S. Army, Navy, Marines, National Guard, Coast Guard, Immigration, Border Patrol, Police, etc., and performed for the Movies. Whether you are young or old, man or woman, send now for new illustrated course. Full Price 15c. Size or strength means nothing. Fear no man, gun, knife, or club.

S. I. JORGENSEN, Maritime Building, Seattle, Wa.

TRADE—Have Crosman .22 Repeater (out of order) and fair .35 Remington Automatic. WANT—4 1/2 in. barrel Colt Woodsman. Charles N. Leach, Indio, Calif. 12-37

TRADE—Perfect, clean, frontquarter horsehide black leather coat, size 44, for twelve or sixteen gauge double or pump. Good or better condition. Mutual satisfaction guarantee. Thomas E. McKeever, Wheeling, West Virginia. 12-37

TRADE—SPRINGER SPANIEL pups, Avandale & Boghurst bloodlines for good 10 Ga. or 28 Ga. hammerless double shotgun. T. C. Hardman, Jr., Commerce, Ga. 12-37

TRADE—Eastman Kodak, \$25.00 camera for Enfield Sporter or Krag. G. Wheeler, 100 W. First Street, Fond du Lac, Wis. 12-37

WILL TRADE Winchester 12-12-30 full, excellent to perfect. Want 52 Standard or Heavy. All replies answered. Edwin B. Grace, Route No. 3, Box 158, Memphis, Tenn. 12-37

SPECIAL PRICES! Hi-Standard Pistols, Sedgley .219 Zipper, H&R Sportman Revolvers, Winchester M70, 71 Rifles, Free Catalog! J. Warshal & Sons, First & Madison-BB, Seattle, Wash. 12-37

WANTED

WANTED—Experienced machinist, tools, 30 interested in new design bolt action wants work with experienced well-equipped gunsmith. John O'Hara, Marion Machine Works, Marion, Ky. 12-37

WANTED—1891 S&W .22 Single Action and Single Shot not convertible into revolver. Please state condition. Prof. Hamilton Vreeland, Catholic University, Washington, D. C. 12-37

WANTED—French Mannlicher-Berthier Carbine, Lebel Rifle. German Anti-Tank Rifle. German Chest Armor. G. E. Poe, 825 View, Hagerstown, Md. 12-37

WANTED—S&W .32 Hand Ejector 3 1/4 barrel blue preferred. Must be excellent or very good. J. R. Callum, 215 Colley Avenue, Norfolk, Va. 12-37

WANTED—Winchester 54-30-30 Action, good condition. L. C. Kranhold, Groton, S. D. 12-37

WANTED—Winchester 52 Speedlock action only. Must be in good or better condition. Describe and quote price first letter. R. Schneider, 507 E. Columbia St., Springfield, Ohio. 12-37

WANTED—S & W 357 Magnum. Must be perfect and reasonable. State details. Case 18 issue 30-06 cartridges. M. L. Lund, 312 Jackson Street, Janesville, Wisconsin. 12-37

WANTED—5 x 8 press. Trade Howe's Modern Gunsmith. Harry Palmer, Hermon Way, Ocean Grove, N. J. 12-37

WANTED—Very good Luger 9m/m 4 inch, prewar or latest made by Mauser, or National Match Colt pistol for Compact Graflex with f.4.5 B & L Tessar Series Ic, or cash. P. H. Wichers, Russell, Kansas. 12-37

WANTED—Targetspot or Fecker scope; Stock for standard 52; Over-under shotgun. J. H. Miner, Pasco, Washington. 12-37

WANTED—280 Ross Battle Barrel; Digest of Ammunition Patents by Bartlett & Gallatin; will pay \$1.00 per issue for following: Arms & the Man Nov. 9, 1911; Shooting & Fishing, Dec. 15, 1892, Dec. 21, 1893, Dec. 20, 1894, Dec. 15, 1898, Dec. 14, 1899, Nov. 8, 15, 1906; The Rifle, May thru Sept. 1885. F. Murray Leyde, 287 Liberty Street, Painesville, Ohio. 12-37

WANTED—Coin-operated telescope, binoculars, coin-operated binoculars device, prism scope, view camera, good 2 1/4 x 4 camera, enlarger, Remington 241. John Fasset, 201 North Beacon St., San Pedro, California. 12-37

WANTED—Howe's "Modern Gunsmith", Springfield ammunition. Sell 44 Military. King Rib and sights, excellent Magna Grips. Don Gowen, Burton, Me. 12-37

WANTED—38 or .32 Colt Auto.; perfect condition; lowest cash offer. W. Strange, 86 Division Avenue, Belleville, New Jersey. 12-37

WANTED—250-3000 tool, mold, measure, components; target scope; camera (prefer Graphic, Graflex, Zeiss), tripod. Sell—30-40, 30-06, .38 Spl. components, cheap. Robert Quigley, Weedsport, N. Y. 12-37

WANTED—Two Winchester 52's, standard, excellent, Lyman 48. Describe and state price. R. L. Rogers, Woodberry Forest, Virginia. 12-37

WANTED—Experienced machinist, tools, wants machine shop job in Southwest. John O'Hara, Marion Machine Works, Marion, Ky. 12-37

WANTED—Cash Paid for Colt Automatic Pistols; Smith & Wesson 1917 Revolvers; Luger Pistols; Krag and Springfield rifles. Hudson, R-52 Warren Street, New York. 12-37

WANTED—Winchester M54 Hornet. Woodsman 4 1/2", Hornet Tools. Carl Lindahl, 180 N. Wabash Ave., Chicago, Ill. 12-37

WANTED—6.5 or 7m/m Mauser rifle, condition of barrel immaterial. Paul Holland, Monett, Missouri. 12-37

## THE TRADING POST

Bargain lists and announcements by the makers and distributors of everything used by active outdoorsmen and sportsmen collectors. Advertisers in this section are required to furnish at least one bank and two business references. We believe they are all straight shooters and thoroughly reputable, but we request an immediate report of any unsatisfactory dealings.

### FIREARMS—GENERAL

WE CAN USE a few wide awake riflemen in active shooting centers as district office managers. Can start on full or spare time basis. Will require hard work and some capital. Dept. DO, Zeppelin Arms Company, Akron, Ohio. tf

**COLT SHOOTING MASTER .45 D.A.**, perfect, \$38.50; 38 Special with ivory grips, nickel finish, hand honed action, excellent, \$37.50. HUDSON, R-52 Warren Street, New York. 12-37

**CLOSING OUT!** Our American and English cartridge revolvers. Send for list. Stamp please. Kimball Arms Company, 220R Cambridge Road, Woburn, Mass. tf

**COLT NEW SERVICE .38 Special**, with heavy pearl grips, excellent, \$29.50. HUDSON, R-52 Warren Street, New York. 12-37

**ATTENTION RIFLEMAN!** I have three Remington 37's New. Never been out of the box. What am I offered for one or all. E. C. Higgins Sporting Goods Co., Tulsa, Okla. 12-37

**COLT POLICE POSITIVE Special**, 32-20, 5" blue, brand new, \$22.50. HUDSON, R-52 Warren Street, New York. 12-37

**U. S. RIFLED MUSKETS**, Civil War period, \$4.00. Kentucky Rifles, \$4.00 to \$30.00. New list describing 40 items. T. J. Cooper, McVeytown, Penna. 12-37

**SAVE! SAVE! SAVE!** One Browning Over and Under Skeeet Gun Pidgeon grade, 26" ventilated rib, used as demonstrator, excellent, \$100.00. One heavy barrel 52, 17A fronts, 48 rear, special stock by Carlson, must be seen to be appreciated. An excellent buy at \$50.00, gun is perfect. One 30-06 Sedgley Sporter excellent for \$48.00. Write us for guns, new and used, also a few demonstrator Colt Woodsman's. Write for prices. All guns delivered express paid any place in the U. S. Decker Bros., Mason City, Iowa. 12-37

**COLT OFFICIAL POLICE 32-20, 5" or 6"**, blue, brand new, \$23.95. HUDSON, R-52 Warren Street, New York. 12-37

**BROWNING AUTOMATIC**, 12 gauge, 28 inch modified and 30 inch full barrels, \$38.00. Mauser 7.63 pistol with holster stock \$25.00. H.R.R. Sportsman D.A., \$15.00. All good, also, new .22 rifles. Could use Officer's model, late new Service 38 or 44, or Magnum if priced right. R. S. Boles, Humberock, Mass. 12-37

**GENUINE MAUSER**, vest pocket, 25 automatic, brand new, \$15.00. HUDSON, R-52 Warren Street, New York. 12-37

**COLT .45 Automatic Government model**, very good, \$19.50. Colt Officers model, .38 6", very good, \$22.00. Colt Police Positive .38 Special, 6", excellent, \$15.00. Colt .25 automatic, good, \$8.00. Springfield, 1873, .45-70, good \$5.00. Remington 14R, carbine, .44-40, Lyman 38, excellent, \$25.00. Charlie Gauss, 29 South Ave., Rochester, N. Y. 12-37

**REMINGTON Single shot target**, .45 Colt D.A. Perfect Peterson 10" barrel, outside very good, \$25.00. HUDSON, R-52 Warren Street, New York. 12-37

**NEW MOSSBERG Rifles Model 35**, \$8.95 (closeout), Weaver 329 Scopes (new model), \$4.65. Free Catalog! J. Warshal & Sons, First & Madison-BB, Seattle, Wash. 12-37

**BRAND NEW Ithaca Field**, 12 gauge, 28" or 30" M&F, \$31.95. Fox Sterlingworth, 12-30 M&F, \$35.45. HUDSON, R-52 Warren Street, New York. 12-37

**PRECISION MATCH Muzzle Loading Rifles**, 100 to 440 yards. Completely equipped and targets to prove accuracy. Relined barrels our specialty. No catalog. Photos 10" each. E. M. Farris, N&W Ry. Y.M.C.A., Portsmouth, Ohio. 12-37

**BRAND NEW Winchester #34, 270 and 30-06 carbines**, \$42.00; .257 Roberts, 48 Lyman, 24", \$59.95; .220 Swift, 26", \$48.75; .220 Swift Super Grade, \$71.00. HUDSON, R-52 Warren Street, New York. 12-37

FOR

THE

THE RIFLEMAN'S BEST CHRISTMAS

BAUSCH & LOMB

Spotting Scope



No rifleman who has ever seen or used a Bausch & Lomb Spotting Scope can ever be satisfied with less. And what an opportunity Christmas offers to strike joy into the heart of the target enthusiast. This Christmas give him that finest of shooting aids—a real Bausch & Lomb Spotting Scope. Complete literature on request. Bausch & Lomb Optical Co., 578 Lomb Park, Rochester, N. Y. At right, N. R. A. Spotting Scope, \$55.

BAUSCH & LOMB

Spotting Scopes

THE CHOICE OF CHAMPIONS

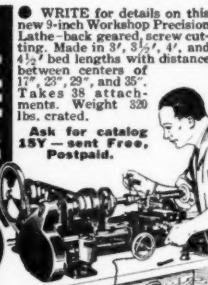
9'x4' and 4 1/2' SOUTH BEND

LATHE

New Low Terms ONLY \$6.00 A MONTH

Ask for FREE Catalog

AS LOW AS \$85 LESS MOTOR DRIVE



SOUTH BEND LATHE WORKS 238 E. Madison St., South Bend, Indiana, U. S. A.

IT REVOLVES



DETACHABLE SWIVEL \$2.00 Per Pair

In sizes 3/4"—1"—1 1/4". Tilting to fit most rifles. Bush, Ring nut and Plate Styles. Parts sold separately. Prepaid.

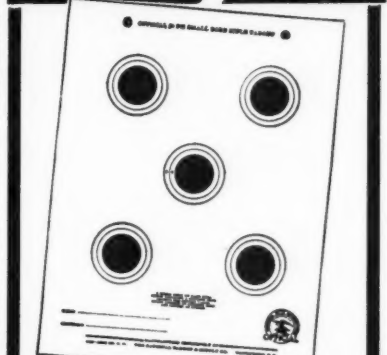
REVOLVING SWIVEL CO. 533 N. E. 78th Ave., Portland, Ore.

**SENSATIONAL BARGAIN!** (28 only), brand new Remington Express rifles, #30 S.L., bolt action, 25 calibre Rimless with 48 Lyman. Regular price, \$70.00, our price, \$49.95. Cartridges non-corrosive, 75¢ box. HUDSON, R-52 Warren Street, New York. 12-37

**M54 TARGET Heavy bbl.**, 22 Hornet, like new, \$60.00; USRA 10" Single Shot, \$20.00. Kirkwood Bros., Inc., 23 Elm St., Boston, Mass. 12-37

**DON'T BUY or trade** for any of the following until you get my price or trade offer. Winchester, Remington, Browning, Savage guns, B&L, Zeiss, Unertl, Weaver Scopes. Write me for your needs. J. L. Vincent, Sporting Goods, Aud, Mo. 12-37

N.R.A. OFFICIAL Targets



**A-5** This is the official target for 50-foot gallery rifle shooting. Special tagboard—7 1/4" x 10 1/4". Price: 100—75¢; 1,000—\$5.63.

Prepare for a better indoor season with a supply of accurate, uniform N.R.A. Official Targets.

Cost no more than inaccurate printed targets. Will not glister in any light. All bullet holes cut sharp. Lithographed on special target paper and tagboard.

Complete line of indoor and outdoor targets. Write for full price list.

**NATIONAL TARGET & SUPPLY CO.**

Dept. A-24, 1249-25th St., N. W., Washington, D. C.



# For ALASKA and AFRICAN BIG GAME



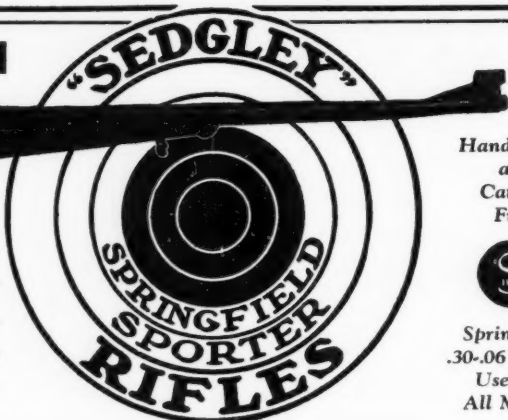
With New Safety  
Firing Pin  
PATENTED

In Twelve calibres for big or small game. Or, we can book your order for a custom-made rifle to your own specifications. \$71 up to \$1000.

Let us estimate.

**R. F. SEDGLEY, Inc.** Manufacturer Established 1897  
2311-17 N. Sixteenth St., Phila., Pa.

Pacific Coast Representative: King Gun Sight Co.  
171 2nd St. San Francisco



Hand Book  
and  
Catalog  
Free



Springfield  
.30-06 Actions  
Used on  
All Models

## REDFIELD Receivers

Redfield precision-made gunsights will help you to a successful hunt and a perfect season. The famous No. 102 Redfield Receiver Sights are specially designed for sporting rifles.

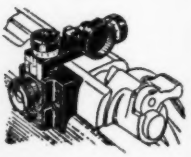
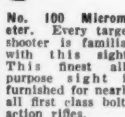


No. 102-W—For M 54 Winchester. The world's most rugged receiver sight. Furnished for MOST models of Winchester, Remington, Krag, Savage, Springfield, Enfield and Mauser rifles. Very easy to install.

No. 102-EM—For M/03 and 63 Winchester. Showing semi-micrometer screw type of adjustment. This type of sight is also furnished for practically all .22 caliber bolt-action rifles.



No. 102-GM—For M 19 23 and 33 Savage Rifles. Furnished with or without screw type of elevation, allowing lowest line of sight possible on this type of rifle.



No. 100 Micrometer. Every target shooter is familiar with this sight. This finest all-purpose sight is furnished for nearly all first class bolt-action rifles.

A Postal Will Bring Our Latest Catalog FREE

**REDFIELD GUNSIGHT CORP.**

3315 Gilpin St., Denver, Colo.

## BELZ SHOOTING GLAS

"As Necessary As Sights On Your Gun"  
Equipped with genuine SHARPSITE toric ground and polished lenses. Sharpens your vision... protects your eyes from glare, ricocheting shot, "blow-backs."  
**BELZ POLARIZED GLASSES** eliminate glare and eye-strain. Clear underwater vision. 15-day Trial with plain glasses. Write for booklet Today.

W. H. BELZ, Inc., Opticians, 2NE 44th Street, N.Y.C.



Model B .32 long rifle, Model C .32 short—high speed and regular. 6 1/4" or 4 1/4" heavy barrel, small bore. Built by gun experts, guaranteed. Send for folder. High Standard Mfg. Co., 151 Foote St., New Haven, Conn.

## A real safety for the Model 70 Winchester



Safety Off

Safety On

Safety lever on right side of bolt. Easy operation.

**Price \$5.00, installed**

Send bolt only. Bolt will be returned day after receiving. Patent applied for.

**PACHMAYR GUN WORKS**

1220 So. Grand Ave. Los Angeles, Calif.



U. S. Army Prismatic  
Rifle Sight and  
Observer's Scope

\$7.50

"Warner & Swasey" Complete with Rifle Mounting. Leather Case. Army Krag Rifles, 30/40; U. S. Army Oil Protected, Leather Gun Slings, new 50¢ ea. or \$3.00 doz. Used 25¢ ea. or \$2.50 doz. Rifle parts, Camp Equipment, Army & Navy Surplus Goods. Send 10¢ for NEW, complete 1937, big catalog. Refunded on purchase of \$1.00.

Globe Sales & Mfg. Co., R-624, Broadway, New York

## ARMY-NAVY Bargains

Haversacks ..... \$ .75 Cart. belt ..... \$ .60  
Machete-Bolo ..... \$1.50 Flint pistol ..... \$6.95  
Army saddle ..... \$9.85 U. S. Hunting knife, \$1.25  
Springfield rifle 50/70 ..... \$3.50

1936 catalog, 361 pages of pistols, armor, guns, daggers, etc., mailed for 50 cents. Special circular for 3¢ stamp.

Established 1865

FRANCIS BANNERMAN SONS, 501 Broadway, N.Y. City

FACTORY NEW EQUIPMENT in Sealed Factory Cartons! Winchester's M70's, \$48.00. New Type M52's; Standard, \$45.00. Heavy Barrel with 48-FH, \$61.25. 64 Deer, \$45.50. Savage Arms: M99-G, \$43.25. M99-T, \$41.75. M99-R, \$42.25. M99-RS, \$50.00. Fecker Scopes: 1 1/4", \$66.75. 1 1/2", \$49.00. 3 1/4", \$36.75. Small Game, \$31.00. Lyman Super Targetspot, \$60.25. Target-spot, \$48.50. All with 3/4 click mounts. Weaver 330-C & S, \$23.00. 440-C & S, \$27.50. 29S, \$10.00. S&W, Colt Arms. All iron sights, reloading tools, bullets, cases, primers, powder. Zeiss scopes and all hunting mounts. Absolutely lowest prices. Carlton Hays, Sardis, Mississippi. 12-37

BIG GAME RIFLE by "Manton of London," .375 Express, bolt action 25", full rib barrel; ramp front and 3 folding leaf rear sights, beautiful grain stock, with heavy canvas trunk case and 75 imported 270 grain S.P. cartridges, brand new, \$137.50. HUDSON, R-52 Warren Street, New York. 12-37

FREE!!! Money-Saving Catalog. Zeppelin Arms, Akron, Ohio. 12-37

CHECKING TOOLS \$1.50 set. Rem. M17, 20 ga. Two bbls., two stocks, fine, \$45.00. Win. M21, 20 ga., fine, \$45.00. Want ribbed 12 ga. T. W. Hildemann, Frenchtown, Mont. 12-37

BEST NEW GUN PRICES STANDARD ARMS. Following used Bargains: K-22 perfect, \$28.50. Winchester 86 TD 33 calibre covered ramp front, Lyman 21 receiver, excellent, \$32.50. Winchester 79 50/110/300 single shot high wall, very good, \$10.00. Parker SC Trap 12/32, perfect, \$65.00. Ithaca #4 Trap 12/32, perfect, \$85.00. Winchester 42 410 Skeet, perfect, \$28.50. Winchester 12, 16-28 modified, excellent, \$29.50. John J. Tobler, 507-32 Street, Union City, N. J. 12-37

5 ONLY, brand new Savage 1919 Match rifles, 22 calibre, full stock, \$22.50 each. HUDSON, R-52 Warren Street, New York. 12-37

## AMMUNITION & RELOADING SUPPLIES

YES! WE HAVE DUPONT AND HERCULES Rifle and Pistol powders and can make IMMEDIATE express shipments C.O.D. Zeppelin Arms, Akron, Ohio. 12-37

CARTRIDGE COLLECTORS! My new specimen list is worth your stamp. John Baker, Rumney Depot, N. H. 12-37

.38 SPECIAL CARTRIDGES—158 Gr. perfect lead bullet. Standard charge or your charge. Rustless primers. \$15.00 per 1000. .45 Auto cartridges 230 gr. perfect lead bullets, \$20.00 per 1000. Cast bullets; cases; cleaned cases; primed cases; etc. Ordnance Service Co., 165 East 32nd St., N. Y. C. 12-37

.270 CAST BULLETS, 3 new ones, several hollow point. Write. Guy Loverin, Lancaster, Mass. 12-37

7.63 MAUSER pistol cartridges. German Loaded, \$3.00 per 100 or \$20.00 per 1,000. F.O.B. Spokane. J. Fiala, 315 Main, Spokane, Wash. 12-37

SELECTED CARTRIDGES per hundred: 1918 issue 30-06 Gov't, \$2.25; 1928 issue Boat-tails, \$3.50; Late issue, \$4.50. HUDSON, R-52 Warren Street, New York. 12-37

"IPCO"—Colloidal Graphite Wads extend bore accuracy. \$1.00—.033", .046", .064". Colloidal Bullet Lubricant, Sticks 60¢, two for \$1.00. Industrial Products, 146 Summer, Boston, Mass. 12-37

COMPLETE STOCK Reloading Tools, Bullets, Primers, Powder, Gunsights, Ammunition, Colt Pistols, Revolvers. Free Catalog! J. Warshal & Sons, First & Madison-BB, Seattle, Wash. 12-37

MOON'S Pure Bullet Lubricants. Plain. Colloidal, Graphited, Sticks 35¢. Cakes, 50¢. Colloidal Graphited Oil. Imitation ivory, Buffalo-Horn, Books, Cast Bullets, Sperm Oil, Tools, Accessories, etc. James E. Moon, 872 Amsterdam Avenue, New York City. 12-37

POWDER, PRIMERS, BULLETS and CASES for all popular calibres. Large Stock. Prompt shipment. Leslie Lindahl, Central City, Nebraska. 12-37

.44 S&W Special, lead bullet, Remington Kleanbore cartridges, \$3.40 per hundred. HUDSON, R-52 Warren Street, New York. 12-37



Announcing

the New

# LYMAN JUNIOR TARGETSPOT SCOPE, 6X-8X

A completely new scope combining low power with brilliant illumination to meet requirements of hunters and target shooters. In the 6X the wide field is fine for small game and short range indoor target shooting. For those who can hold closely and require more magnification the 8X is recommended. New Lyman rear mount, 3-point suspension, with 1/4 minute clicks.

Junior Targetspot Scopes have the high class features of the best scopes such as Bausch & Lomb polaroid tested optics, non-rotating objective lens, 19 mm (3/4") free aperture objective, adjustment for individual and range

focusing, easy parallax elimination. Extra large flat field of vision at 100 yards—6X, 16 ft.; 8X, 14 ft. Clear graduations on front sleeve.

Mechanically and optically the new Junior Targetspot is as flawless as a fine diamond, a marvel of light gathering power with amazing sharpness of definition.

With mounts, bases and rubber eyecup the Junior Targetspot is priced at \$45.00, f.o.b., Middlefield, Conn. Fully described in folder, free on request.

THE LYMAN GUN SIGHT CORPORATION, 90 West St., Middlefield, Conn.

**USED RELOADING TOOLS:** All sold money back if not satisfied. Moulds, Ideal, Handle Attached \$2.50; 321298, 285221, 457129, 308252, 375296, point only 375296. Blocks only \$2.00; 308284, 358432, 280412, 308241, 311114, 360344. B&M Molds with Handle \$2.50; 454260, 256125 311170, 311168, 312100, 403185. Modern Bond \$4.00; C358812, 311955-1145, one old W. R. A. 38 W.C.F. \$1.50, W.R.A. Tools, \$1.00, 38 S.W., 32 W.C.F., 38-55, 44 W.C.F. Old Marlin 38-55 accessories built in \$1.50. Lyman No. 6 32 Special, 30-30, 38 S&W, \$2.00. Lyman #3 32-40, 22 W.C.F. muzzle resizer & expanding plug, \$4.00. Lyman #4, \$1.50, 25-20, 25-21, 22 16/40, 41, 32-40, 25-20, 38 S&W, 303 Sav., 28 Stevens. #26 B&M Tool for 30-06 and 45-70, \$8.00. #26 B&M Tool for 32-20 44 Special, \$4.00. #28 B&M Tool for 257 Roberts, 250 Sav. B&M Bullet Seaters, \$1.50; 38 Sp., 32 A.C.P., 30-06, 30-40, 32 S&W Long, 25 Rem., 45 Colt. Ideal tool 45-70 and 250 Sav. \$4.00 each. Ideal Lubricator and Sizer \$6.00. Dies for above 75¢, .319, .311, .308, .454, .257. Fairbanks Scale, \$12.50. B&M Bullet Pullers 30-06, \$1.50. Full Length re-sizing dies, \$1.25; 30-40, .25 Rem., 250 Sav., 303 Sav., 30-06. B&M Bullet Sizers 30-06 and 45 Colt 30-06, \$1.50. H. K. Schmid, Callery, Pa. 12-37

**MUZZLE LOADER SHOOTERS.** Can furnish bulk shot in sizes 4 and 6, buck shot in .32, .34, .36 and .38 sizes at 20¢ per pound. Percussion caps, 2 boxes for 25¢; horns, flasks, ramrods, nipples and locks. E. M. Farris, N&W Ry. Y.M.C.A., Portsmouth, Ohio. 12-37

**SCHMITT Mod. 24.** A new reloading tool, was exhibited for the first time at Perry this year. Full length resizers, expands, re & de-caps. Any rifle or pistol case with one in and out movement of the operating lever, full automatic primer feed. It requires less effort to operate than any tool on the market. The principle of operation is basically the same as the Mod. 12, but the mechanical construction is a combination of Mod. 12, 17 and 20 with several new features, all mod. 12 dies can be used on this tool. Send for descriptive circular. C. V. Schmitt, 915 Washington Ave., So., Minneapolis, Minn. 12-37

**UNION MOUNTS** for rifle telescopes \$9.00. Jordan Multiple Reloading Press, extremely accurate and moderately priced. Bulletins free. Union Auto Specialties Co., Brookville, Pa. 12-37

## GUNSMITHING & SUPPLIES

**HUBALEK SPECIAL MATCH BARRELS,** \$30.00, complete fitting, quick service, finest accuracy guaranteed. Rifle returned in 10 days. Also any caliber single shot rifle refitted to 22 L. R. Send for folder. A. Hubalek, 22 Caliber Specialist, 1167 Myrtle Ave., Brooklyn, N. Y. 12-37

**EXPERT GUN ENGRAVING.** We specialize in this art. Folder on request. R. J. Kornbrath, 37 Manchester St., Hartford, Conn. 5-38

**ALL SINGLE SHOT RIFLES PARKER-RIFLED** to 22 Cal. or Repeaters. Finest accuracy. Quick service. Stamp for prices. W. A. Griffing, 514 W. State St., Milwaukee, Wis. 12-37

**MATCH BARRELS** fitted to your actions. Prices reasonable. Redfield sights. Lyman sights and telescopes. Fecker and Bausch & Lomb telescopes. 10X Shooting coats. Eric Johnson, 149 Helen St., Hamden, Conn. 12-37



**CHRISTMAS GREETINGS** By the shooter—for the shooter.

**AL FREELAND'S SCOPE STANDS.**

The finest custom scope stand built. New improved '38 model. Sensational screw adjustments for elevation and angle. All accessories nickel-plated. Olive or black wrinkle finish tripod, 15" \$6.00—62", \$8.50. Polished aluminum, \$1 additional. THE PERFECT STAND.

**AL FREELAND'S ARM CUFFS.** With detachable sling clasp. Made of soft tanned leather 3" wide. Sling always stays in place. Eliminates pulsation. Adjustable to fit any shooting coat.

**DE LUXE MODEL.** \$3.25 **SUPERIOR MODEL.** \$2.75 **SOMETHING NEW!!** The new **FREELAND FORE END STOP** with adjustable features, means perfect comfort. \$2.85.

**AL FREELAND** 1602 1/2 St., Rock Island, Ill. (Splendid Xmas Gifts)



## ANTI-SLAP TRIGGER MECHANISM

Pat. July 7, '36, No. 2046996

A perfect and dependable let-off is essential in any gun to render it worthy of that most important refinement and aid to accuracy—Finger Slap Elimination. Regarding your guns and the above services write to

**A. E. BERDON, YELLOW SPRINGS, OHIO** Present Introductory Price, \$3.00



## \$3.50—SCOPE TRIPOD

Cast Aluminum, Satin Finish. Height, 10" to 15". With extension adjustable to 25", only \$4.25. 2 oz. Gun Oil, 1/2 oz. Powder Solvent or Raw Linseed Oil, only 35¢. Stock Polish, 50¢. Try our Bluing Solution, 4 oz., 75¢. Best Gun Grease, 50¢. See July Dope Bag. Write for free Circulars. Merry Christmas & Happy New Year **THE JAYMAC CO., Jackson, Mich.**

**VENTILATED RIBS** installed on all types of shotguns, automatics, pumps, overunders, \$17.50 to \$25.00. Double barrels, \$25.00 to \$35.00. Satisfaction guaranteed. John Crowe, Guncraft, 2713 Duncan St., St. Joseph, Mo. 12-37

**GUNSMITHING SUPPLIES.** Cirassian and French Walnut Blanks, Buffalo Horn Forearm Tips, Buttplates, Grip Caps, Sling Swivels, Barrel Bands, and other accessories of highest quality. Chambering Reamers. Ask for folder. Paul Jaeger, 4655 Fernhill Rd., Philadelphia, Pa. 12-37

**CHECKERING TOOLS,** hand made by checkering expert. Set of three—checker, border and cleaner; also directions, complete, \$2.75 postpaid. Warner's, 39E Geer Ave., Norwich, Conn. 12-37

**GUN STOCK BLANKS:** walnut, shotgun, plain, \$1.50, semi-fancy, \$2.00, fancy, \$3.00. Sporters, plain, \$2.00, semi-fancy, \$3.00, fancy, \$4.00. O. M. Friddell, 227 Davis, Findlay, Ohio. 12-37

## NUMBER 5237 DIAL MICROMETER SIGHT

**Extension—Telescope Height for 52 Winchester Round Receiver.**

Mounts on left side using screw holes provided, without cutting the stock.

**No. 35 MIELT** for Receivers with dovetail.



This improved sight has 1/4 minute (inch) clicks, the leads on the cam are generated to conform to the sighting radius and provide the correct adjustment for elevation and windage to move the impact of the bullet on the target exactly 1/4 inch per click at 100 yards. This accuracy enables the shooter to move from the edge to the center of the X ring. Results: Higher Scores.

This sight is also available for 37 Rangemaster, Sears Ranger, Savage NRA, and Stevens 416.

Specify **WITTEK DIAL MICROMETER SIGHTS** when ordering your rifle.

## WITTEK DIAL MICROMETER SIGHT

**STANDARD HEIGHT—**for Winchester 52—Standard or Heavy Barrel, Winchester 54, 70, Hornet—Springfield 30-06, M1, M2—Savage 40 and 45—Remington Special and Express—and other target or sporting rifles.

## WITTEK FRONT SIGHT



With Reversible Shades. Meets all light conditions. 8 quick change apertures and reversible light shades. Large globe with cross bars gives "telescope" effect and accuracy.



## WITTEK QUICK DETACHABLE BARREL BAND

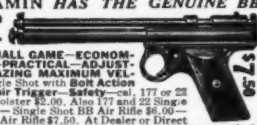
Write for Free Catalog. Raises front sight to telescope height. Always brings the sight to correct position by locator which is driven in the front dovetail slot.

## WITTEK MFG. CO.

4308 W. 24th Pl. Chicago, U.S.A.

## ONLY BENJAMIN HAS THE GENUINE BB COMPRESSED AIR PISTOL

FOR TARGET & SMALL GAME—ECONOMICAL—ACCURATE—PRACTICAL—ADJUSTABLE FORCE—AMAZING MAXIMUM VELOCITY—SAFE. Single Shot with Bolt Action—Hammer Fire—Hair Trigger—Safety—cal 177 or 22 or BB. Price \$7.50. Holster \$2.00. Also 177 and 22 Single Shot Air Rifle \$7.50—Single Shot BB Air Rifle \$6.00—22 Shot BB Repeater Air Rifle \$7.50. At Dealer or Direct—No license required—SAFE. The only genuine compressed air pistols and rifles for shooting BB on the market. Full Details—Targets Free—Write Today for Introductory Offer. Benjamin Air Rifle Co., 807 Marion St., St. Louis, Mo., U.S.A.



## What a Christmas Present for a Hand Gun Shooter!

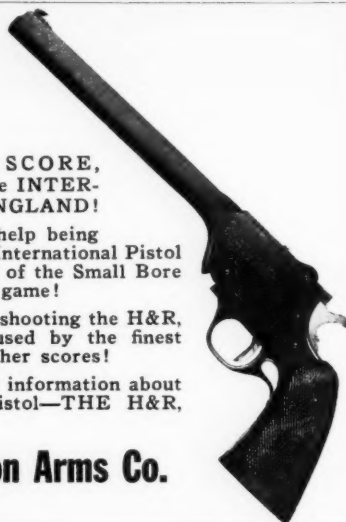
THE GUN THAT MADE TOP SCORE, SECOND, FIFTH and TENTH in the INTERNATIONAL MATCH AGAINST ENGLAND!

If you shoot a hand gun, you can't help being interested in the recently inaugurated International Pistol Match. It's like the famous DEWAR of the Small Bore Rifleman—the classic of the handgun game!

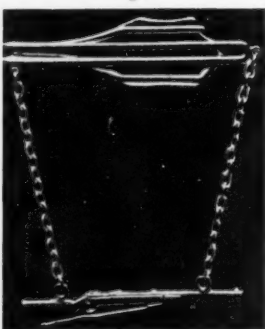
For this match as for all fine slow fire shooting the H&R, USRA Model, is unsurpassed—it's used by the finest American Shots—it will give you higher scores!

Write today for folder SS, giving full information about this finest American Single Shot Pistol—THE H&R, USRA MODEL.

**Harrington & Richardson Arms Co.**  
Worcester, Mass.



## Buy a Tie Clasp for Xmas



A gold plated or rhodium finish tie clasp made with your favorite gun—rifle—revolver—.22 cal. automatic or .45 cal. automatic.

**Your Choice for \$1.00 Each**

As a merchandise prize in club competitions these tie clasps make popular awards. Special prices to club officers desiring dozen lots.

**Give Your Shooting Friend  
A Shooter's Xmas Present**

**GENE MITCHELL  
V. H. BLACKINTON & CO.**

P. O. Box 261, Ben Franklin Station, Wash., D. C.

## HANDEE

Tool of 1001 Uses

### A NIFTY GIFT For Boys from 7 to 70

A whole shop full of tools in one—for work on all metals, alloys, bone, resins, plastics, glass, stone, wood, etc. Uses 200 different accessories to grind, drill, cut, carve, sand, saw, engrave, sharpen, clean, polish, etc. Saves hours of tedious hand work. Plugs in any socket AC or DC, 110 volts.

#### STANDARD MODEL

A sturdy little helpmate. Weighs 1 pound. 13,000 r.p.m. \$10.75 postpaid, 3 Accessories Free.

#### DE LUXE MODEL

Fastest, most powerful tool of its type and weight, 12 ounces, 25,000 r.p.m. \$18.50 postpaid, 6 Accessories Free.

#### GET A DEMONSTRATION

at your Hardware, Department or Tool Dealer or order either Model on 10-Days, Money-Back Trial, Catalog Free.

#### CRAFTSMAN'S PROJECT BOOK

Easy working plans for making many interesting and unusual projects, 25c stamps or coin.

Chicago Wheel & Mfg. Co., 101 W. Monroe St., Dept. R, Chicago, Ill.

☐ Send Catalog ☐ De Luxe Model ☐ AR-12  
☐ \$10.75 Model ☐ Project Book ☐ Send C. O. D.

Name .....

Address .....



For  
Faster  
Better  
Jobs



## HOTEL CHELSEA

FOR REST  
OR PLEASURE  
CHOOSE the CHELSEA

Here you will find everything to further your comfort and enjoyment—outside ocean-view rooms; verandas for lounging; sun deck; superb cuisine; alert, unobtrusive service; varied sports; entertainment, & fellow guests you'll like.

**SPECIAL  
WEEKLY  
RATES**

FROM  
\$6 WITH MEALS  
AND BATH  
\$3 ROOM ONLY  
AND BATH  
Per Person 2 in a Room

### ATLANTIC CITY

JOEL MILLMAN • JULIAN A. MILLMAN  
J. CHRISTIAN MYERS

STOCK BLANKS. American Walnut, Bird's-Eye Maple and French Walnut. John Reize, 8152 Cornell Ave., Chicago, Ill. 12-37

NEW WINCHESTER M52 Speedlock (not latest type), \$42.95. Free Catalog! Guns, Scopes, Sleeping bags. J. Warshall & Sons, First & Madison-BB, Seattle, Wash. 12-37

BLUE KIT, enough chemicals with directions for making four of Howe's & Bakers Hot Blueing solutions, \$2.00. Free list of Gunmaker's chemicals. McDonnell-Goodwin, Ordnance Chemists, New Hope, Penna. 12-37

PERMABLU guarantees factory type re-blue. Not paint. Gunsmith's favorite. Never fails. 50¢. Easy instructions. PermaBlue Co., Dept. 100, Davenport, Iowa. 12-37

OREGON MYRTLE WOOD, THE MOST BEAUTIFUL STOCK WOOD. Stocks, Blanks, Wood. Stamp for illustrated folder. D. H. Mosher, Salem, Oregon. 4-38

WALNUT BLANKS figured from \$4.00. Delivered free. Mitchell Bosly & Co., Ltd., Little Shadwell St., Birmingham 4, England. 11-38

BARREL Inletting Rasp. \$1.40. It is The Answer to the Gunsmith's prayer. Frank Mittermeier, 3577 E. Tremont Ave., New York City. 12-37

RESTOCKING—Target & Sporting, all supplies. Rebarreling—Solid & relined. Special tools. All hand Inletting, Checking, Bluing. The "Lasher" Powder Measure. C. W. Lasher, Germantown, N. Y. 12-37

RIFLES RESTOCKED by Milhoan need not be shot in. Precise fitting, accurate shooting. Stamp for prices. Custom stocking or rebuilding. Robert U. Milhoan, R#3, Elizabeth, W. Va. 12-37

YELLOWSTONE will remodel any military rifle into custom sporter at surprisingly low cost. Enfield special: Your rifle completely remodeled, new sporting stock, etc., and fitted with Weavers 29S scope, \$29.50. Write for folder. Yellowstone Gun Co., Columbus, Mont. 12-37

BRAND NEW 24" Sporting type barrels for Springfield 30-06 at \$8.00, for Krag 30-40 at \$7.00, for Mauser '98 Calibre 30-06 at \$7.00. New 30-06 Enfield barrels, \$3.50. New Colt 1917, 45 Calibre barrels, \$1.75. New S&W 1917, 45 Calibre barrels, \$2.25. New 1 1/4 regulation live leather slings, 60¢. Excellent C.A.P. 45 Calibre barrels, \$1.25. All parts for Springfield, Enfield and Krag. Complete Springfield actions, excellent, \$11.00. Receivers, \$3.50. Trigger guards, \$1.95. A brand new 30 Calibre sporting type, 24" barrel fitted to your Springfield, Krag or Mauser action at \$9.50. Stamped envelope for answer. Robert Woerner, 5829 Saul Street, Philadelphia, Pa. 12-37

22 LONG RIFLE Match grade carbon steel barrel blanks 1 1/4" Dia. 31" long special price \$10.00, few 1 1/4" Dia., \$12.50, 24" .257 Roberts sporting barrels fit to Springfield and Newton actions, \$17.50, 30 Remington Bull Gun 26" heavy barrel, 1" muzzle, Lyman sights and scope blocks, new \$65.00, 24" .257 Roberts sporting barrel on L.N. heat-treated Springfield action, ramp sight, \$30.00, 23" Light Barrel on Springfield action, no sights, \$30.00, 24" .270 barrel on Mauser flat bolt action, ramp front, \$30.00, 35 Newton barrel on Mauser action, ramp front, 48 rear, \$50.00, Krag with M1 .219 Zipper 24" barrel \$17.50, Spanish Mauser action with 24" .257 Roberts barrel no sights, \$17.50. No trades. Stamp for price list. W. A. Sukalle, Barrel-maker, Phoenix, Arizona. 12-37

NOW READY, new heavy target grade barrels, selected walnut scope stocks. Krag .219, \$60.00, engraved Mauser .219, \$90.00. Two Borchards 22-3000, \$75.00, two 44 1/2 Stevens, \$45, \$70.00. Single shot Winchester \$45.00-\$75.00. Bullet seater and shell die, \$7.00, 22 Ballard Match, \$35.00, Stevens 417 Hornet, \$25.00. Want Winchester, Mauser, Springfield actions, state price. Hervey Lovell, 3345 Gale, Indianapolis, Ind. 12-37

REBUILDING and Repairing of all kinds of firearms. Fine Hunting and Target Rifles built to customers specifications. Remodeling for the .220 Swift, .219 Zipper, 22/3000, or Hornet. A new Single Set Trigger for Springfield and other Bolt Action Rifles. Hensoldt and other high grade Hunting Scopes. Mounts of unsurpassed rigidity. Paul Jaeger, 4655 Fernhill Rd., Philadelphia, Pa. 12-37

HEAVY 6" Target Barrel fitted to your "Woodsmen." Match scores will improve. \$12.50. F.O.B. Denver. E. W. Bres, 1408 Quebec St., Denver, Colo. 12-37

SERVICE Revolvers pistols made target arms. Hammers, triggers redesigned. Action work. Special sights, stocks. Steel wood checking. Rebluing. R. Singer, 1610 Lake, Evanston, Ill. 12-37

PETERSON Barrels 22 to 38 Cal. No Hi-Power. 50 years in business. Famous barrel-makers and gunsmiths. A. W. Peterson and Son, 1429 Larimer St., Denver, Colo. 12-37

MAKER of fine handmade percussion lock squirrel and turkey rifles. Cal Price, Orange, Texas. 12-37

ALPINE Model Stocks for Enfield, full length, 24" barrel, roughturned, \$10.00. Manhattan Gun & Repair Shop, 35 W. 44th St., New York City. 1-38

**\$1.00 EACH.** Springfield Rifle Barrels. 30-06 Calibre. Second Hand. Limited supply. Weil's Curiosity Shop, 20 S. Second Street, Philadelphia, Pa. 12-37

**BRAND NEW Luger 4" barrels, 30 or 9 mm.** \$4.95; 6" barrels, 9 mm only, \$7.50. Magazines, \$3.50; Holsters 8", \$1.50. HUDSON, R-52 Warren Street, New York. 12-37

**RESTOCKING.** Checkering and general gunsmithing. Very fine shotgun stocks, beavertail fore-ends, scope combs and revolver grips made. Rifle Stocks are properly bedded to secure highest accuracy. Photos for stamp. Elmer Key, Chelsea, Okla. 12-37

**PISTOLS and Revolvers Reblued.** Fine blue-black finish. Any size, \$3.50. Jack Walton, Box 1457, Tampa, Fla. 12-37

#### BINOCULARS, SCOPES, SIGHTS & CAMERAS

**BINOCULARS CLEANED and RE-PAIRED.** Alignment corrected to 1/1000 radian on our special collimator. Mail your glass for estimate. Mirakel Optical Co., Mount Vernon, N. Y. 11-38

**READY!** New 10 power scope by Souther, built like surveyor's transit, 4 lens erecting eyepiece and achromatic objective. Genuine spider web cross hairs. No parallax. Length 21". Fine for Winchester 52's. Price \$40.00—and worth it. New Excelsior target scopes by an American Optical Company. The Expert 5X with 3/4" tube 16" long, \$5.95. The Sharpshooter 4X with 3/4" tube 15" long, \$4.95. The Marksman 2 3/4 X with 3/4" tube 14" long, \$3.95. The best scopes made for the price. Prompt delivery 22 Caliber auxiliary barrels for 45 Colt Automatic, \$7.00. Kimball Arms Company, 220 Cambridge Road, Woburn, Mass. 12-37

**TELESCOPES, Microscopes, Binoculars.** Lowest prices. Optical catalog free. Brown-scope Company, 234 Fifth Ave., New York. 1-38

**SCOPE SIGHTS, BINOCULARS—RE-PAIRED.** Cross-hairs, Cleaning, Mounting, etc. Let me estimate your repair needs. Harley B. Watts, 88 North Roys Avenue, Columbus, Ohio. 12-37

**LIBERAL ALLOWANCE** for your firearms toward Bausch & Lomb and Zeiss binoculars and all makes of motion picture and "still" cameras and projectors. All makes movie and still cameras and projectors and binoculars repaired. National Camera Exchange, Established 1914, 11 South 5th St., Minneapolis, Minn. 12-37

**RIFLE TELESCOPES** for hunting and target; high in quality, low in price. Send for catalog. Malcolm Rifle Telescope Co., Auburn, N. Y. 5-38

**LYMAN #422 Riflescopes \$9.00, #438, \$15.75.** Wollensak 8 power binocular. Special Price! Just Arrived! New Weaver 330 and 440 Scopes! Free Catalog! J. Warshal & Sons, First & Madison-BB, Seattle, Wash. 12-37

**CAMERAS:** Leica G. F.2 Summar Lens. Eveready case, \$130.00. Contax #2 with F.2 Sonnar lens, Eveready case, \$137.50. Contax #3 with F.2 Sonnar and Case, \$185.00. Contax #3 with F.1.5 Sonnar and Case, \$235.00. Supplementary lenses for above cameras equally cheap. Binoculars: Zeiss 8x30, Lightweight with case, \$60.00. Zeiss 8x40 Regular and case, \$75.00. Zeiss 7x50, Regular and case, \$85.00. Hensoldt 8x30, Lightweight and case, \$47.50. Hensoldt 7x56, Lightweight and case, \$97.50. Hensoldt 8x56, Lightweight and case, \$110.00. All in condition like new. Latest models and absolutely guaranteed. Will ship with privilege to examine before acceptance. United Pledge Society, Inc., 843 8th Ave., New York City. 12-37

**YOUR WOLLENSAK or Ranger Rifle** scope converted to 8X 1 3/4" objective, \$10.00. Send to Hawkins Gun Repair Shop, 941 L St., Merced, California. 12-37

#### ACCESSORIES

**UNIVERSAL SCOPE STAND** for rifle and pistol shooters. Post card for prices and information. Loder & Wilson, 1014 Cherry St., Erie, Pa. 12-37

**GENUINE U. S. Army Live Leather Slings** 1 3/4". New \$1.00 each; also used, 45¢ postpaid. HUDSON, R-52 Warren Street, New York. 12-37

**IMPROVE YOUR SCORE** with new light weight CHECKED pistol grip. Beautiful walnut finish for Winchester 52. Price \$1.25. Wm. P. Morrissey, Box #33, Middlefield, Conn. 12-37

#### A SURE-TO-PLEASE XMAS GIFT



GENUINE  
*Mid-Western*  
QUALITY

#### Order this Rust-Proof GUN CASE

The finest case made for protecting any gun against rust. Made of heavy sheepskin, with wool side in to absorb moisture, sweat and dampness. Also collects oil film, which acts as additional rust preventive. Thick wool protects sights, finish, and pads gun against bumps. Full length. Well made. Stoutly reinforced with leather. Ideal for storing gun. **MONEY-BACK GUARANTEE.**

For Shotguns, overall length up to 47 1/2" ..... \$1.25  
For Doubles or Over-Under up to 48 1/2" ..... 4.50  
For Rifles—slide, lever, auto up to 43" ..... 4.00  
For Rifles—bolt action, overall up to 43" ..... 4.50  
For Rifles with telescope sight up to 43" ..... 5.50  
For Revolver Cases, barrels up to 7 1/2" ..... 1.25  
Cases 17" to 21 1/2" longer 25¢ extra  
Cases 3" to 4 1/2" longer 50¢ extra

#### REVOLVER CASES

Ideal for storing and carrying your revolver or pistol. Sheep wool lined. Protects finish and prevents rust.



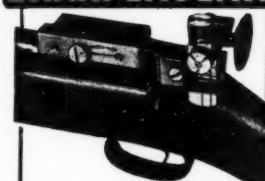
#### KNOCK-DOWN CASES

Same as above except made in 2 sections for carrying gun knocked down. Heavily reinforced. No. 1214—For Dble. Brl. and pump shotguns ..... \$5.50  
No. 1230—For automatic shotguns \$5.90

Write for new catalog showing full line of Mid-Western Water-proof Leather Garments.

When ordering state type of gun, length overall, and whether bolt, slide, lever or automatic action.  
**BERLIN GLOVE CO. 603 Fox Ave. Berlin, Wisconsin**

#### SHARPER DEFINITION - GREATER PRECISION!



**MG52 Extension Tang Receiver Sight for Winchester 52.....\$12.00**

Also made for Winchester 56, 57, 69, for Savage 19, 22, 23, 33, for Stevens 417, Ballard, Ranger Model 50, etc.....\$12.00

Interchangeable for 16 different rifles. Just install proper base on each gun.

#### With the New MARBLE-GOSS RECEIVER TANG SIGHT

No "fuzzy" bulls. No eye strain. Puts aperture where it belongs—close to the eye. Special 1 1/2" disc with recessed aperture diaphragm (.005 thick) gives sharpest definition. Precision micrometer adjustments and longer sight radius give perfect control of shots. You see better—you score higher with a Marble-Goss.

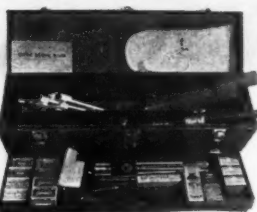
*It's the Sight that has Everything!*

#### 14 SCORE-BOOSTING FEATURES!

Aperture closest to eye. Longest sight radius. Sharpest definition. Reversible disc carriage. Adjustable extension tang. 1/4 minute micrometer adjustments with clockwise movement. No bolt interference. No metal corners to cut cheek. Adjustable zeros. Easily attached or dismounted. Takes all standard thread discs. The new Marble-Goss is truly the "sight that has everything". (A-140)

**MARBLE ARMS & MFG. CO. 502 DELTA AVENUE GLADSTONE, MICH., U.S.A.**

#### WESTCHESTER KIT BOX



Size 26 x 7 x 7. Holds any scope and everything else. 24 Gauge steel, double seamed ends. Finish dark green ripple baked enamel. Tough and will not fall apart if dropped. Price \$6.00 postpaid.

**WESTCHESTER TRADING POST**  
Mount Vernon, New York

#### TILDEN MOUNTS THE IDEAL GIFT



**MODEL 70 WIN., HIGHEST QUALITY 2 1/2 x EUROPEAN SCOPE. OUR MOUNTS AND SAFETY ALL CAREFULLY FITTED \$97.00 (AS SHOWN).** Tilden Mounts are light, strong, low. Readily dismounted. No loose parts. Re-Zeros accurately. Satisfaction Guaranteed. New side lever safety for 70 Winchester \$2.50 postpaid or fitted to your bolt. Catalog free. Write, TILDEN MFG. CO., 2750 Ne. Speer, Denver, Colo.



#### LYMAN SIGHTS

Made for shooters who demand both the best equipment and most satisfactory results



Fine adjustment moves sighting disc close to eye when using the 52 Micro-click Extension sight. Locks rigid with coin slotted screw. 1/4 min. clicks, \$13.00.



New 77 Target Front Sight with 9 interchangeable inserts. Mounts same height as scope. Uses special base furnished with sight. Complete. \$4.00.



New Lyman Sight Catalog No. 25, 64 pages, 10¢ postpaid. Free Sight Folder.

#### THE LYMAN GUN SIGHT CORP.

90 West St. Middlefield, Conn.



## For Christmas—Get That 'Scope, Mount, Rifle from GRIFFIN & HOWE



G. & H. new, extra-low, quick-detachable micrometer mount with Henold's 'scope on a Winchester M 70 Rifle.

We are now supplying a Dural-aluminum Griffin & Howe quick-detachable micrometer telescope sight mount for the new Dural-aluminum hunting telescope sights that have dual dovetail bases. This new mount is extra low.

Make this Christmas one long to be remembered by that so deserving shooting man to whom you want to make a present. He will highly appreciate and long enjoy one of our specially built Griffin & Howe sporting or target rifles. Choice of the newest high-intensity, super-accurate, extra-fast calibers. Consult us about such a rifle from our stock. We may have just what you want.

Or if you wish to give him a fine hunting 'scope, mounted on a new, ultra-low, quick-detachable G. & H. micrometer 'scope mounting, there is still time to send us the rifle for the fitting and get it back with this fine equipment before Christmas. If you already have the 'scope, send it along with the rifle. Best target 'scopes and mounts fitted with same expert precision. For FREE folders giving detailed information, write TODAY to

**GRIFFIN & HOWE, Inc., 202-R East 44th St., New York City**

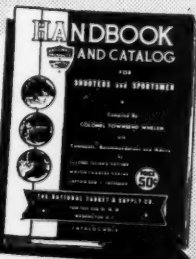
## GUNS OUTDOOR EQUIPMENT CAMERAS

Sportsmen! Here is the authoritative Handbook and Catalog you need. Thousands of items listed, described and priced.

Contains a wealth of advice and information on shooting, camping, selection of equipment for particular purposes, etc. The result of years of personal experience of Colonel Whelen, Colonel Hatcher, Major Askins, and Captain Crossman.

Written from the sportsman's point of view.

It's a big Handbook and Catalog. 152 pages, 452 illustrations. Costs 15¢ to mail. Price 50¢ Postpaid. Send for your copy today!



**50¢**

**NATIONAL TARGET & SUPPLY CO.**

### THE MERIT OPTICAL ATTACHMENT

Fits on shooting or regular glasses. SOLVES THE PROBLEM OF BLURRING EYES AND TARGET. Cuts out obnoxious side lights. CONCENTRATES AND STABILIZES THE VISION. Makes PISTOL or RIFLE sights stand out BRIGHT and CLEAR. Helps shooter take same POSITION for EACH SHOT. A smoothly working IRIS SHUTTER gives INSTANT and EASY choice of the BEST APERTURE to use for CONCENTRATION at time of SHOOTING.

INSTANTLY attached with POSITIVE holding rubber action cap. EASILY MOVED to ANY POSITION on EITHER LENS of the AVERAGE GLASSES. A REAL AID to BETTER SCORES on INDOOR and OUTDOOR RANGES. Weight 66 grains. Price \$2.75.

### MERIT PEEP SIGHT DISCS

Give INSTANT aperture adjustment with ABSOLUTE accuracy! No need to CAREY, CLANG or LOSE! No more OFF ZERO apertures! Simply OPEN or CLOSE the SMOOTHLY WORKING IRIS SHUTTER for an aperture best suited to prevailing shooting conditions! TESTED and RECOMMENDED by LEADING SHOOTING AUTHORITIES! TARGET or HUNTING discs, \$2.25. State MAKE and MODEL of sight and rifle when ordering.

### THE MERIT MELTING POT

Enables you to cast MORE UNIFORM bullets FASTER! 400 to 500 per hour with a single cast! No bother with slag, dippers or ladles! Simply hold pouring hole in mold in contact with discharge nozzle, lift lever and let it drop. GRAVITY gives proper pressure for cast perfect bullets all the time! Works on ordinary gas stove. Gas is most easily controlled heat. Holds 20 lbs. Price \$6.50 F.O.B. St. L. Order through dealer or direct. Cash or C.O.D. QUANTITY PRICES.

**MERIT GUNSIGHT CO., DEPT. A.**  
1636 Jaynes Street Berkeley, Calif.

## Announcement...

For the past six years I have been printing my own targets to the satisfaction of many riflemen and clubs. However, there has always been a demand for the N. R. A. targets, therefore to meet this demand and continue my policy of giving the riflemen what they task for, I will now carry a complete line of Official N. R. A. targets.

I have received many complimentary letters concerning my No. 11 Catalog. This is the most complete Catalog of Rifle Accessories published. It contains 180 pages and describes hundreds of articles of interest to the shooter.

Send 15 cents today for your copy.

**P. J. O'HARE**

Importer and Manufacturer

552 Irvington Avenue  
Maplewood, N. J.

## EXPERT Gunsmithing

Fine equipment and expert staff enables us to offer precision work on modern and antique arms. We make springs and missing parts. Expert welding. Low number Springfield actions drawn and re-heat treated using government formula. \$7.50. We install the Engel single trigger. Will not double nor balk. \$25.00. Close chambering for 300 Mag., 30.06, and .257 Wm. Roberts. Estimates promptly given. Fine stock work. Moderate prices. Prompt delivery. Send all work express prepaid.

**Kimball Arms Co., 221 Cambridge Road, Woburn, Mass.**

**SAMPLE** assortment basement Rifle and Pistol Targets, quarter. Zeppelin Arms, Akron, Ohio. **tf**

**CASWELL** Target Carriers give the shooter every possible point because they hold the target steady and require no exertion to operate. Fully equipped with ball-bearing pulley wheels they speed the target to a rigid support giving the shooter an honest measure of his ability. Caswell Target Carriers, Anoka, Minnesota. **12-37**

**HOLSTERS-FLAP**, full grain steerhide, natural, for .38 O.M. 6" bbl., special \$2.75. Ordnance Service, 165 East 32nd St., N.Y.C. **12-37**

**GENUINE NEW MILLS** Woven Belt for cartridges 25 to 50 calibre, \$1.00. Shell belt 16 to 20 gauge only \$1.50. HUDSON, R-52 Warren Street, New York. **12-37**

**PACHMAYR** Revolver Grips, \$1.35. A-1 Gov't slings, 50¢, swivels, 35¢. Postpaid. Free Catalog! Guns, Scopes, Sights, Sleeping Bags. J. Warshall & Sons, First & Madison-BB, Seattle, Wash. **12-37**

**GUN CASE**, Lambskin, leather, canvas. Prices from \$2.00 to \$6.25. Write for catalogue. R. C. Nichols Corporation, Yarmouth, Maine. **12-37**

**HEAVY WINCHESTER** Covers, leather reinforced for Winchester 1903 or Remington 24 models. Other small rifles, with \$3.50 only \$1.25. HUDSON, R-52 Warren Street, New York, N. Y. **12-37**

**CLOSING OUT N.R.A. Combination Gun Case.** Made by the famous Hartmann Trunk Company. Will accommodate rifle with telescope sight, shooting gloves, cleaning rod, targets, etc. Two sizes. (1) Designed especially for Winchester 52. Inside measurement 46 3/4" x 7 3/4" and 3" deep. (2) Designed for Winchester 52 Sporting Rifle 42 3/4" x 7 3/4"; 3" deep. Both cases will accommodate any rifle by purchasing re-arranging blocks. Price \$12.00 F.O.B. Washington, D.C. N.R.A. 2-Gun Pistol Case manufactured by the Hartmann Trunk Co., \$8.00 F.O.B. Racine, Wisconsin. National Target & Supply Co., Dept. A-24, 1249 25th St., N.W., Washington, D. C. **12-37**

**RIG.** 50¢ Seal-S-Teel, 40¢; Gunslick, 25¢; ZACOL SOLVENT, 35¢. ZACOLUNE, 25¢; Round Cleaning Patches, 25¢; Brass Brushes, 15¢; Bristle Brushes, 15¢, Postpaid. Zeppelin Arms, Akron, Ohio. **tf**

**"SLIP-ON" GRIP** Adaptor for revolvers (\$2.00); will greatly improve grip in slow; permits uniform grip in rapid. Write for description. Ordnance Service, 165 East 32nd Street, New York, N. Y. **tf**

**FACTORY SECONDS** Recoil Pads \$1.00, postpaid. Complete with screws for attaching. You save \$2.25. Send outline of gun butt. Prompt delivery and satisfaction guaranteed. Incor Mfg. Co., Terminal Bldg., Youngstown, Ohio. **tf**

**HEAVY NEW** Cowhide Government flap holsters for Belt Colt Ace, super and .45 Automatic, worth \$3.75, only \$1.95. HUDSON, R-52 Warren Street, New York, N. Y. **12-37**

**GENUINE U. S. Army** Leather slings, 1 1/4 inch, new, 80¢ each. Paul Jaeger, 4655 Fernhill Rd., Philadelphia, Pa. **12-37**

In your stocking Christmas Morning! Your Keeper's Keeper. Man—what luck! Albrete, 110 Milk Street, Boston. **12-37**

**OFFICIAL N.R.A. 3 POUND RIFLE TEST WEIGHT**, \$2.00 postpaid. Official N.R.A. Weight for all guns and revolvers. Will test from 2 to 4 pounds. \$2.50 Postpaid. National Gunsmiths' Chisels made by Buck Brothers, \$17.50. National Barrel Groover, \$3.00. Set complete, \$20.00 Postpaid. National Target & Supply Co., Dept. A-24, 1249 25th St., N. W., Washington, D. C. **12-37**

## PATENTS

**PATENTS**—Low cost. Easy terms. Book and information free. Highest references. L. F. Randolph, Dept. 370, 724 9th St., Washington, D. C. **tf**

## ANTIQUES & CURIOS

**ANTIQUE ARMS** bought, sold, exchanged. Colts of any period wanted, particularly engraved ones and those fitted with ivory grips, cased outfits and the big heavy percussion models. List available. Stephen Van Rensselaer, Williamsburg, Virginia. **1-38**

**5 PERFECT FLINT ARROWHEADS**, 20¢; 4 perfect Flint birdpoints, 20¢. 30 different named minerals, \$1.00. Curios and pistols. Catalog, 5¢. Lemley Curio Store, Northbranch, Kans. **tf**

**ANTIQUE FIREARMS.** Specializing in fine U. S. Large selection early Colts. List 10¢. Wm. M. Locke, 1300 City Nat'l., Omaha, Nebr. **1-38**

**ANCIENT INDIAN** and Stone Age Relics: Catalogs over 80 pages 5¢. Grutzmacher, Mukwonago, Wisc. **1-38**

**WORLD WAR RELICS.** Vickers Aircraft Machine Guns for Clubhouse or Den, rendered unserviceable, no parts missing, released by War Department. Weight about 33 lbs. See M.O., Check or Draft for \$7.75 (f.o.b. N. Y.), \$1.00 deposit on C.O.D. orders. We are also selling Marlin Aircraft Guns, rendered unserviceable, no parts missing, at the same price. Fiala Outfits, A-10 Warren St., New York City. Free catalog on Fiala Sleeping Bags and Camping Equipment. **tf**

**ANTIQUE ARMS.** Wheel-Locks. Flintlock and Percussion Firearms of all kinds. Send stamps for large list. C. Weisz, 2412 Northland Ave., Overland, Missouri. **tf**

**LARGE STOCK** of fine American and European antique arms. Write us your wants. The Second Edition 28 page Catalog just off the press. Stamp, please. Kimball Arms Co., 20 Cambridge Road, Woburn, Mass. **tf**

**THE AMERICAN RIFLEMAN**

AM OFFERING part of my collection of antique arms for sale. List available for stamp. Ney Zimmer, 902 Hammond Building, Detroit, Michigan. 12-37

NEW LIST describing 31 Kentucky Rifles. Also some Military Pieces. Stamp please. T. J. Cooper, McVeytown, Penna. 12-37

ANTIQUÉ RIFLES. Muskets, Pistols, Swords, Daggers, Powderhorns, Flasks, Flags, War Medals, Colored Prints of Military & Naval engagements. Lists free. Stephen K. Nagy, 8R South 18th Street, Philadelphia, Penna. 12-37

#### MISCELLANEOUS

CANADA, THE RIFLEMAN'S PARADISE. Its true picture is given you in the pages of **ROD AND GUN IN CANADA**. Canada's national outdoor-life magazine. Each issue is packed with honest-to-goodness yarns of hunting and fishing in the Dominion, which has it second to none. Real stories that men can appreciate. Fine Gun Department edited by C. S. Landis. PRICE \$1.00 per year. Send 10¢ for Sample Copy. Rod and Gun, 1224 St. Catherine St., W., Montreal, Canada.

GUNBUGS! ATTENTION!!! OUTDOORS Magazine is featuring a monthly series of instructive articles on HOME GUNSMITHING. Another series illustrates and gives the histories of the various N.R.A. trophies. These articles in addition to the gun department are edited by Philip B. Sharpe, Life Member of the N.R.A. All American Rifleman readers sending in only ONE DOLLAR will receive OUTDOORS Magazine for the coming full year—twelve copies crammed from buttplate to muzzle with special things of interest to the sportsman. Also at least four back copies containing these articles will be sent to you free of charge WHILE THEY LAST so that you may have them for your files. Clip this ad and mail with \$1.00 to OUTDOORS MAGAZINE, 333 No. Michigan Ave., Chicago, Ill., Dept. N. 12-37

250 LETTERHEADS, 250 envelopes, well printed on good bond stock, \$2.75, postpaid. Glenrose Press, Winchester, Indiana 12-37

YOUR YEARLY RIFLEMAN copies handsomely bookbound with Title, Date, Your Name gold stamped, \$2.00. Bound volumes available. Wanted: Arms-Man, Shooting-Fishing. Malcolm Watson, Medford Hillside, Mass. 12-37

CROW HUNTERS: Great Horned Owls, alive or stuffed, \$5.00 each. L. E. Harthan, Ventura, Iowa. 12-37

HUNT on my private preserve. If you come here for a deer or elk and do not get one the cost here will be nothing. Modern Stone Lodge. Discriminate hunters only. Basil M. Spring, Swains, Alleghany County, New York. 12-37

\$5.00 Government Armor Plate Steel Target with Bell. Great for range or home use. Weill's Curiosity Shop, 20 S. Second Street, Philadelphia, Pa. 12-37

#### RECEIVED TOO LATE TO CLASSIFY

10% DISCOUNT Lyman, Noske, Weaver, Fecker, Malcolm Scopes, Redfield & Tilden Mounts. Free Catalog! J. Warshal & Sons, First & Madison-BB, Seattle, Wash. 12-37

MANNLICHER 6.5 m/m. excellent, double set triggers, \$65.00. Zeiss binoculars 7x50, perfect optically, slight wear outside, \$75.00. Colt officers model 22, imbedded, \$32.00. Ross 280 Factory Sporter, perfect, \$35.00. A. S. Van Horn, Box 4204, Tucson, Arizona. 12-37

WOODSMAN, excellent bore, finish good, accurate, no extractor—none needed, never fails. Best offer. M. Watts, 5627 Euclid, Kansas City, Mo. 12-37

WINCHESTER 52, 1937 Model, Heavy Barrel, Factory grease, Accuracy tested, Target stock, Sharrock Adapter, Vaver front and Marble Goss Rear. \$70.00. Money Order. Frank Coyle, 1170 Octagon Road, Camden, N. J. 12-37

BINOCULARS, B&L 6x30 and 8x30, \$25.00 each, Springfield Sporter, \$45.00, Funk double 10 gauge, engraved, pad, sights, \$80.00. Leather case \$10.00, all excellent. Remington Model 8 Auto., .30 cal., good, \$25.00. W. H. Otis, 5614 S. Ellis Ave., Chicago, Ill. 12-37

COMPLETE KRAIG Bolts, \$4.00, new. Gov't slings, new, \$4.50 dozen, 50¢ ea. Gov't solid brass barrack rods, \$4.50, 50¢ ea. Springfield issue rifles, \$28.00. Flaig Bros., 817 East Ohio Street, N. S., Pittsburgh, Pa. 12-37



## A Real Christmas Present — for a Shooter!

Shooters everywhere know that the double chamber B&M "VISIBLE" is the most accurate Powder Measure obtainable. It is a Christmas Present any shooter will appreciate and use as long as he lives. Send for full details.

### BELDING & MULL

George McG. Fryberger, Successor  
830 Osceola Road  
Philipsburg, Pennsylvania

## Sportsman Carryall Bag \$2.85

Postpaid

The body is made of heavy, handsome, dark-brown waterproof duck, trimmed with high-grade chocolate elk leather. Opened and closed instantly with talon fastener. Made extra strong with heavy loose bottom pad for carrying shells, canned goods, ginger ale, etc. Bottom reinforced with heavy, stiff builders' canvas that will not break, and protected with five brass studs. Two sizes. Both are 16½" x 7" on bottom. Medium size 11" high—\$2.85 postpaid. Large size 14" high—\$3.25 postpaid. Free padlock with every bag. Write for new Catalog.

L. L. Bean, Inc.

115 Main Street Freeport, Maine  
Mfrs. Hunting and Camping Specialties



## Truly FINE Gifts

The 1¼" Combination Target Scope in 8, 10, 12, or 14X with mounts and bases, \$67.50.

The 1" Target Scope in 6, 8, or 10X with mounts and bases, \$47.50.

The Small Game and Gallery Scope in 3, 4, or 6X with mounts and bases, \$32.50.

The 2½ or 3X Big Game Scope, \$28.00, less internal adjustments: \$35.00 with internal elevation; \$45.00 with internal windage and elevation; these prices are less mounts. We furnish any type mount you specify for the big game scope.

Pistol grip attachments for M-52, \$1.25.

Recoil absorbers for target type scopes, \$3.00.

Place your order now to make Christmas delivery possible. Free folder.

JOHN UNERTL

75-B CEMETERY LANE, R. D. 4  
MILLVALE BRANCH, PITTSBURGH, PA.

CONTAX CAMERA, Sonnar F 2, chromium covered, delayed action, ever-ready case, dist. meters, new, last model till 1250, \$170.00. Carlheinz Tessmar, 32 W. 47 St., New York City. 12-37

PAIR BISLEY Targets and pair Russian Targets in lined oak case marked "Officers Revolver Club 1st Lancashire Regt."; 45 Frontier Target; 455 Frontier Target; 45 Bisley Target; 455 Bisley Target; Rare foreign automatics including: Borchardt, Webley-Foreberry, Mannlicher, Steyer 1912, Sauer, Mauser, Colt 45 Auto., Savage Hammerless Auto., 455 and 45 Triple Locks, 455 and 45 new service. Perfect cased Dean's Revolving Rifle; Cased Maynard Percussion shotgun and rifle; Cased double-trigger Tranter; 455 Lancaster four barrel; Cased, engraved 303 Farquarson; Same, .375; Deluxe, perfect Woodmayr; 2 hand made gripe; 38 Case resizer; 1500 rounds ammunition; \$125.00 buys everything. J. B. Evans, 334½ S. Main St., Findlay, Ohio. 12-37

COMPLETE PISTOL Match Outfit; Colt O.M.T. 38 H.B., perfect; Colt O.M.T. 22 excellent; Buchanan Pistol Case and B&L Draw-Tube, both new, Pachmayr; 2 hand made gripe; 38 Case resizer; 1500 rounds ammunition; \$125.00 buys everything. J. B. Evans, 334½ S. Main St., Findlay, Ohio. 12-37

THE KENTUCKY RIFLE, Dillin, can be purchased direct from the author at \$6.00 per copy. J. G. W. Dillin, Box 87, Media, Pa. 12-37

TRY THIS for a Merry Christmas and A HOBBY NEW YEAR!

10-DAY money-back TRIAL

### ALL PURPOSE MOTO-TOOL

saves time and labor on all craft work

An attractive, appreciated gift for every craftsman who works at home, shop, school or profession. Grinds, drills, carves, polishes, etc. on all materials. Takes 10 seconds to do 10 minutes hand work. Absolutely safe—thousands in use. Weighs 6 oz., handles easily as a pencil. Powerful—about 25,000 r.p.m., AC or DC current. Chuck handles a large variety of tools.

MODEL 1 \$9.85 Postpaid

### NEW MODEL 2 MOTO-TOOL

Faster—More Powerful

Designed for heavier shop work, this rugged machine is recommended where precision and accuracy are demanded. It has many refinements—unit finger grip—chuck lock—snap switch—air cleaner—better cooling—convenient hanger, etc. Weighs 13 oz., develops about 27,000 r.p.m. Price \$16.50, postpaid.

Shaping Table \$2.50 Universal Stand \$4.50 Stand extra

30 pc. craftsman's tool set, for either model, \$57.50 Postpaid

Ask your dealer for a demonstration or order by mail on 10-day money-back trial. Send for FREE booklet. DIEMEL MFG. CO. 2124 CT., Racine, Wisconsin

## BULLS EYE AND SHARP-SHOOTER PISTOLS

Truly unique Xmas gifts—safe for anyone, fun for everyone. Guaranteed absolutely accurate—many proclaimed them most accurate powderless pistols ever developed. Light matches at 15 feet. Shoot ± 6 shot. A repeater. Curious? Order today, shoot up the 600 shot included in each set, then if not completely "sold" on it, return and get your money back. Bulls Eye Pistol, \$2.50 Prepaid. SHARP-SHOOTER, \$1.50, \$1.75, \$2.00, \$2.50 and \$2.75. Accuracy same—difference in equipment and finish only. See your dealer or order direct. BULLS EYE PISTOL MFG. CO., Box 480, Rawlins, Wyo.



**THE NEW PECHAR ONE TURN FOCUSING MICROMETER ADJUSTMENT TARGETSPOT SCOPES "WITHOUT THE USE OF LOCKING NUTS"**



8 and 10 power-32 mm (1 1/4") Objective with new improved rear mount, etc. \$62.00. Inverter Focusing \$58.00. Also NEW IMPROVED duralumin 3-point REAR MOUNT 1/4 min. or 1/2 min. clicks. Price per set \$14.00. "THE NEW LYMAN, PECKER OR UNERTL TELESCOPES CAN BE CONVERTED TO USE MY NEW METHOD OF FOCUS ADJUSTMENT." If you are interested write for free pamphlet.

**RUDOLPH PECHAR**  
Bellevue Branch,

Patent Applied For

113 Beechmont Ave., West View,  
Pittsburgh, Pennsylvania

**A sportsman's idea of  
MERRY XMAS  
"MASTER"  
GUN CLEANING KIT  
Price \$1.00**

**GUARANTEED TO PLEASE HIM**

*At your dealer or postpaid*  
**OUTERS LABORATORIES**  
Onalaska, Wis.  
Makers of Gunglick



**I WIN TROPHIES NOW  
WITH MY WOLLENSAK SPOTTING SCOPE  
ONLY \$14.00—TRIPOD \$7.50 EXTRA**

I couldn't afford a high-price scope, but I needed a good one. A friend let me try his Wollensak. Boy, does that bring the target up close! Magnifies it 20 times; shows a .22 hole in the black at 100 yards. Now I spot every shot—easy to outshoot fellows who used to beat me regularly. Order one yourself on trial—return it if your score doesn't leap upwards. At dealers or direct, postpaid (or C.O.D.). Order now. Write for Free Literature.

Wollensak Optical Co., 666 Hudson Ave., Rochester, N. Y.

**WOLLENSAK**

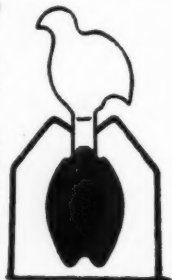
**BEST  
INLETED  
STOCKS**

of selected American Walnut, these stocks are inletted 1/32" small to permit perfect bedding. You don't need to be a professional gunsmith to finish one of these stocks. but you can obtain professional results. Regular with cheek piece... \$6.00. Monte Carlo Comb... \$1.00 extra. Winchester Model 52 in American Walnut only... \$8.00. Also finest imported French and Circassian Walnut stocks. Write For Folder.

**NATIONAL TARGET & SUPPLY CO.**  
Dept. A-24, 1249 25th St., N. W., Washington, D. C.

**SPINNING BIRD  
TARGET**

Forged steel, case  
hardened. Made  
to "Take It."  
Spins and returns  
to position when  
hit. \$2.00 at your  
dealers or post-  
paid from manu-  
facturer.



**CHAS. M. BIDDLE COMPANY**  
Riverton New Jersey

**MERRY CHRISTMAS**

**SAY IT WITH A GENUINE  
PEARL—IVORY—STAG  
REVOLVER OR PISTOL GRIP  
FRANK MITTERMEIER  
GUNSMITH SUPPLIES  
357 E. TREMONT AVE. NEW YORK CITY.**

EXCELLENT 38 spl. S&W 5" with King V-rib and wide hammer, \$35.00. Excellent K-22, 5", with King Reflector Ramp and wide hammer, \$30.00. Ray Welker, 406 N. Harvey, Oak Park, Ill. 12-37

EXCELLENT PARKER CHE 12/30, \$137.50. Colt 38 Super, \$27.50. Winchester 5A, with case, \$22.00. Very good Custom Krag Sporter, \$37.00. Winchester 351 and 150 cartridges, \$37.00. Vion 33X and stand, \$21.00. Colt 38 Auto., \$15.00. Frontier 45/75, \$20.00. S&W 32, \$9.00. Colt 32, \$9.00. Good Peterson Ballard, \$22.00. Frontier 38/40, \$15.00. Above for cash. Would like offers in cash or trade for very nice Brewster Harding Pinfire, Greener Hammer Trap, and Reilly Hammer Field, all engraved and 12 gauge. Also fancy engraved Marlin 44W and 32 Jean Van Maele Pinfire and good cloverleaf Colt. Want old Colts for cash. Fred Anderson, 299 Park, Hackensack, N. J. 12-37

SPECIAL PIDGEON Ejector Grade, Charles Lancaster 12 gauge, double, excellent condition, \$200.00. Frank Hornig, 11 Rolling St., Lynbrook, N. Y. 12-37

WINCHESTER 52 Speedlock, standard, excellent to perfect, \$38.00. Colt Officers Model, .38, perfect, \$35.00. Colt Officers Model .22, excellent to perfect, ivory, \$35.00. Cap & Ball Colt cal. 36, serviceable, \$5.00. Cap & Ball Colt, cal. 31, serviceable, ivory, \$7.00. 45-70 Springfield, very good, \$6.00. Dragon pistol, Model 1840, serviceable, \$4.50. Barr two-pistol case, Officers Model, perfect, \$5.00. J. C. McIntire, Maquoketa, Iowa. 12-37

WE STILL HAVE Some selected lots of Match Ammunition brought back from Camp Perry. Regular Price. Badger Shooters Supply, Owen, Wis. 12-37

WANTED—22 REM. FIELDMASTER, heavy-duty type 44 S&W; X-Ring target holder and backstop. 3 bbl., 16x16x22 Savage. Ray Welker, 406 N. Harvey, Oak Park, Ill. 12-37

THE BEST SHOTS in your club use the Marble-Goss Receiver Sight. Send for yours today, \$8.50 postpaid. Vic Breneman, Hershey, Pa. 12-37

WANTED—Late, Postpaid, reasonable; Whelen's W.H.&W. Telescopic Sights, Baker's Gunsmithing, others listed N.R.A. Postcard Sufficient. Donald Hanna, Holland's Food Shop, Rochester, Minn. 12-37

AMERICAN Walnut Crotch Burl. Rifle and gun stock blanks. Grain running right in grip. Plenty of Circassian Walnut too, up to 3 inches thick. Cheapest prices in U. S. A. Buy from wholesaler who has saw mill supervision, insuring the prettiest of Burl and grain. Inletting and shaping service to gunsmith, where you can save half your cost on any gun or rifle. D. W. Thomas, P. O. Box 184, Vineland, N. J. 12-37

CLEARANCE 50 GUNS. List for Stamp. S&W 22-32, very good, \$16.00. Winchester #62, perfect inside, \$14.00. Springfield 1815, \$12.00. Sharps Buffalo Gun, \$12.00. Whitney 35, C&B, \$8.00. Colt C&B revolvers, \$7.50. Elliott 4 barrel, \$9.00. F&W 41, 22 Derringer, British Bulldogs, Relic Guns, Molds, \$3.00 each. G. Crozier, McGraw, N. Y. 12-37

GUNS ON CREDIT. No Finance Charges. 5 to 15 months to pay. Used guns taken in trade. Send for catalog. H. E. Reohrs & Co., Closter, N. J. 12-37

SAVAGE MODEL 99G, .250-3000, perfect inside, good out, \$25.00. Colts Camp Perry 10", excellent, \$20.00. F. E. Foster, 225 W. Union St., Athens, Ohio. 12-37

HICKORY Cleaning rods, in Cal. from .22 to .45 by insured mail postpaid, up to 28 in., 50¢, to 40 in. 75¢, over 40, \$1.00. Also Northern Ironwood cured with raw linseed oil in rods upon request. Lorin Granger, Weyerhaeuser, Wisconsin. 12-37

ITHACA #4 double 12, excellent, \$55.00 delivered, details for stamp. Ernest Ranslem, Cedar Bluffs, Nebr. 12-37

STAM ADJUSTABLE Height Cushion Rubber Cheek Rest for scoped W52. Fine for M54, M70, Krag, Enfields. Fits all Stocks. Mentioned Page 31 November Rifleman, \$2.50 postpaid. Circular. Dick Stam, Dale Road, Rochester, N. Y. 12-37

WANTED—Mausier '98 carbine, not short rifle, must be pre-war or later than 1924, perfect in and out, all numbers matching, state price. J. H. Niles, Shrewsbury, N. J. 12-37

ACCURATE HEAVY and Sporting Barrels fitted for Hornet, .22-3000, .219 Zipper, .220 Krag, .220 Swift, .257 Roberts, 30-06, .300 Magnum. Your choice of commercial barrels precision fitted. Machine rest testing. Telescopes furnished and fitted. Set-triggers, \$6.50, \$7.50, Enfield guards straightened, \$1.75. Military rifles converted. J. P. Adriance, Lounsbury, N. Y. 12-37

WANT STANDARD and heavy 52 Speedlock, also 10 pound 54 or 70, .30-06. All excellent or better. Sam Ellis, Longview, Wash. 12-37

RIFLE BARRELS Relined for the 22 calibre cartridge. Chas. A. Diller, Lock Box 534, Dayton, Ohio. 12-37

BARGAINS! SATISFACTION GUARANTEED. Colt 38 O.M.T. H.B., like new, \$30.00. Colt Police Positive Target, .22, \$18.00. Colt Woodsman, excellent, holster, \$23.00. H.B. 52, above 38,000, excellent, \$40.00. Wollensak 20X, like new, \$8.50. B&L Draw, excellent, \$22.00. B&L Tripod, old style, like new, \$4.50. Fecker 34, 6X, click, \$30.00. Slo-lock 52, very good, \$18.00. Pre-War Luger, .30, very good, \$24.00. H&R Sportsman, like new, \$15.00. Weaver 29s low mount, \$9.50. Carolyn (Sears), 4 & 8X click mts., \$8.00. Badger Shooters Supply, Owen, Wis. 12-37

WINCHESTER M70 Swift, 57W rear, scope blocks, perfect, fired 40 times, \$50.00. Remington M141 .35 cal., perfect, \$35.00. H&R Single Shot, 10" barrel, holster, very good to excellent, \$15.00. Colt C&B .31 cal., engraved cylinder, holster, good working order, \$9.00. Stevens 44 1/2 Schutzen, relined 25-20 ss. by Johnson, perfect in, very good out, \$20.00. One each following Tap-at-co Sleeping Bags, new: 59C, \$34.00, 57A, \$27.00, 68B, \$39.50. Want Woodsman, 5A, Targetsport, or? Stamp Please. Vic Breneman, Hershey, Pa. 12-37

SEASONS GREETING To All N.R.A. Members and Sportmen! SPECIAL OFFERING: Following new guns, December only! Prices delivered anywhere in USA. Win. 70 .06 cal., \$57.50. Win. 71 .348, \$55.00. Win. 94 Carbine, \$27.50. Win. 53, 32-20, \$27.50. Win. 64 Deer Gun, \$54.00. Rem. 141, 32, 35 Cal., \$45.00. Ithaca Pumps 12 ga., \$40.00. Over-Under Sav. Deluxe, \$38.00. Standard, \$33.00. Rem. 121 .22 Cal., \$23.50. Flaig Bros., 817 East Ohio Street, N. S., Pittsburgh, Pa. 12-37

MODEL 52, SLOWLOCK, good condition, 2 stocks for telescope or iron sight, \$22.50. Write for description. Earl Hove, Sycamore, Ill. 12-37

RARE ML Hunting Rifle maker John Brown, Freemont, N. H. 23" oct. bbl., 1 1/16" across flats, 32 cal. under hammer false muzzle, Globe front, unusual adjustable rear, German silver tip, fine figured walnut stock. Weight 8 1/2 lbs. Good shooting order, \$25.00. M. Parrish, 3140 Holmes Ave., Minneapolis, Minn. 12-37





CHECK HERE

**FAMILY—USE THIS COUPON**

**3  
GIFTS IN  
1**

*An Idea—*

# GIVE THE IDEAL GIFT!

**I**F YOU were responsible for publishing the best magazine in the world on the subject of firearms and their use—

And if, as a publisher, you saw an opportunity to make a deal with one of the outstanding outdoor magazines—an arrangement which would permit you to offer two leading magazines plus the privileges of a great nation-wide fraternal association at a real savings—

What would you do?

You would probably close the deal just as we did. And, you would tell all your friends about this ideal Christmas gift suggestion. We can think of no more appropriate gift for the Sportsman to give his Sportsmen friends than this "3-in-1" combination which includes a year's subscription to "Field and Stream" in addition to annual N. R. A. membership and a twelve months' subscription to The American Rifleman.

Use this unusual offer to say—"Merry Christmas!"—with three gifts in one. All gift memberships received prior to December 23 will be entered and mailed to the recipient before Christmas.

**Y**OU are familiar with the benefits of N. R. A. membership and you know from experience how welcome are the monthly visits of The Rifleman. Of all the general interest outdoor magazines on the newsstand, none is better known or more progressive than "Field and Stream."

To each friend you remember under this "3-in-1" plan we send an appropriate gift card. Or if you wish to use this offer as a remembrance to yourself, you may do so. It is open to present subscribers of both magazines as well as to new subscribers and is made for the month of December only. Our acceptance of subscriptions to "Field and Stream" is positively limited to this one year offer.

National Rifle Association  
Barr Building, Washington, D. C.

Gentlemen:

I enclose \$3.50 for your "3-in-1" offer.

Send N. R. A. membership credentials and the next 12 issues of both THE RIFLEMAN and FIELD AND STREAM to:

NAME.....

ADDRESS.....

CITY.....

## CHECK THE APPROPRIATE SQUARE

N. R. A.

☐ New

☐ Renewal

☐ New

☐ Renewal

Is this as a gift subscription?.....

**All new N. R. A. members must be endorsed**

ENDORSEE.....

ADDRESS.....

CITY.....



**Old Friends  
or  
New Friends --**

If they are shooting friends you will look a long way before you'll find a more appropriate gift than a membership in the N. R. A. You know what it means to you to receive your Rifleman regularly each month. Your Sportsmen friends would be equally aided by the gift of an N. R. A. Membership-Subscription.

*Don't Forget*

**OUR FRIENDS of OLD**

THIS CHRISTMAS SUGGESTION is addressed to Members of the N. R. A. who know some sportsman friend—a fellow shooter or hunting companion—who formerly enjoyed the benefits of membership in our Association, but who in recent years has been forced to drop out because of hard times.

Each year since the boom days of the late twenties, hundreds of sportsmen have had to give up their interest in the shooting game for financial reasons. Many of these old timers have written us to say how much they miss the monthly visits of The American Rifleman.

Perhaps you know one of these friends of old—someone to whom fate has been temporarily unkind, but whose interest in shooting remains undimmed. If so, here is the sure way to capture the real spirit of Christmas.

Tell us to put one of these old timers—your friend and our friend—back on the membership rolls for 1938 so that he may keep abreast, once again, with developments in the shooting world by receiving the good old Rifleman each month throughout the New Year. We will send in the Christmas mails a gift card bearing your name together with our own welcome and new membership credentials.

Should friends of old be forgot? Here is the practical, joyous way to say "Merry Christmas" in the true spirit of "Auld Lang Syne."

**HERE'S ONE FRIEND  
OF OLD**

Name.....  
Street.....  
City.....State.....

**AND ANOTHER**

Name.....  
Street.....  
City.....State.....

☐ Check here if you want us to send gift cards.

National Rifle Association  
Barr Building, Washington, D. C.

Gentlemen:

The Sportsmen listed are my friends of old.

I employ you to enroll each as an active annual member during 1938 and to see to it that The American Rifleman visits these "Old Time Friends" each month throughout the New Year.

Remittance of \$3.00 for each membership listed is enclosed.

MY NAME.....

STREET.....

CITY.....STATE.....

READER



CHECK HERE

READER—USE THIS COUPON



# To Give You A BETTER MAGAZINE

THE readers of THE AMERICAN RIFLEMAN probably have more varied interests than the readers of any other national association magazine. Fundamentally they are all tied together by their love of guns but building a magazine to meet their widely varying interests in guns is a tremendous task.

You can help us to at least satisfy **your** tastes by filling in the blank below and mailing it to us without delay. Our only desire is to please—and to help—our members and subscribers. Tell us frankly what you like and dislike and we will do our best during the coming year to cover most thoroughly those topics which are of the greatest interest to the majority of our members. At the same time we will devote proportionate space to those subjects of less general interest but of great value to the small groups who indicate interest in specialized subjects.

TARGET shooters (divided into three groups—smallbore, pistol and high power), Field Shooters (divided into four groups—big game, small game, water fowl, upland game birds), Amateur Gunsmiths, Collectors and Antiquarians, School Teachers, Guides, Police, Y. M. C. A. Secretaries, Forest Rangers, Farmers, Mechanics, Clerks—

Some want more scores and stories of matches—some want scores eliminated and more information on hunting. Some want more dope on old guns—some think old gun lore a waste of space and ask for more information on target arms and technique—

What do **you** want included in the magazine?

National Rifle Association  
Publishers of The American Rifleman  
Barr Building, Washington, D. C.

Gentlemen:

The 3 articles which I liked **best** in The American Rifleman during 1937 were (See Index for the year on page 34 this issue):

1. ....
2. ....
3. ....

The 3 articles which I liked the **least** (or found least interesting) were:

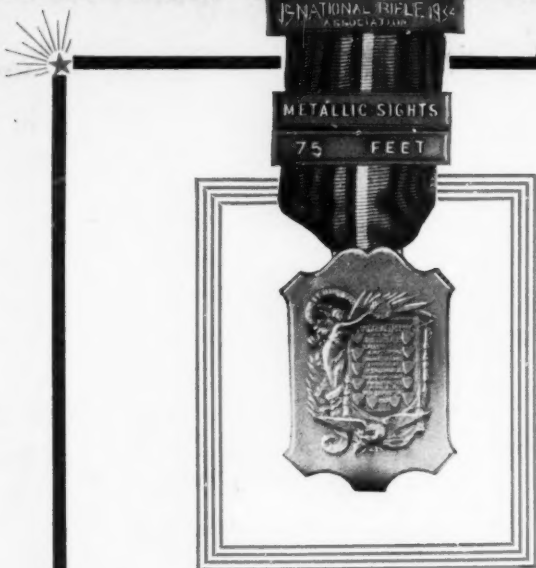
1. ....
2. ....
3. ....

Sign your name on the margin if you desire

## Strike out "would" or "would not"

- ☐ (would) like **more** question and answer letters in The Dope Bag with fewer reports on new accessories.
- ☐ (would not) like a real antique firearms page to be added to our magazine.
- ☐ (would) like more information regarding local club activities.
- ☐ (would) like to see more space given to scores and stories of Registered Shoots and State Matches.
- ☐ (would not) like these tournaments to be covered by tabulation of winners and scores rather than in story form.
- ☐ (would) like to see **more** space devoted to such standard arms as the .30-06, .30-30, .25-20, .22 long rifle, 12 gauge shotgun, .38 and .45 revolvers and pistols with **less** space to such specialized arms as the various "magnums."
- ☐ (would) like to see **more** space devoted to deer, bear, elk, moose, etc. and **less** to groundhogs, squirrels, crows, etc.
- ☐ (would) like to see more space devoted to short elementary discussions of firearms and their use, such as the "Old Coach's Corner" which appeared in the January, 1937 issue.





READER—USE THIS COUPON



# Shoot in the MATCH of the MONTH

**T**HIS year the National Rifle Association gallery postal matches have been arranged to provide one outstanding pistol event and one outstanding rifle event for each month of the season. Even though you participate in none of the other matches on the program you can enjoy the competition you will meet in the match of the month. January opens with two matches which have always been among the most popular on the entire program. Read the conditions and decide now to see how you stack up against the rest of the field. Enter now for all matches scheduled in January.

**RIFLE. No. 1.** The prone metallic sights match at 75 feet, calling for 100 shots, ten on each of ten registered targets. That's a lot of shooting, so you are permitted to spread the match out over several days if you prefer. There are place medals well down the list and state champion awards and percentage medals besides (for scores of 990 or better).

**PISTOL. No. 4.** The slow fire 50 foot match, calling for 40 shots with any ".22 caliber pistol or revolver." Here, too, you have an opportunity to win state awards and percentage medals as well as the place awards.

## OTHER MATCHES FIRED IN JANUARY

**No. 2.** Standing any sights free rifle match, consisting of 50 shots from the N. R. A. standing position at 50 feet. Set triggers, Schuetzen type butt plates and other offhand aids are permitted.

**No. 3.** Life Members' rifle match, consisting of 20 shots prone and 20 shots standing, any sights, at 50 feet. Open to life members only.

**No. 5.** Tyro slow fire 20 yard pistol match, consisting of 40 shots, slow fire with any ".22 caliber pistol or revolver." Open to tyros only.

National Rifle Association  
816 Barr Building, Washington, D. C.

Gentlemen:

1 2 3 4 5

I have put circles around the above numbers of the postal matches I want to shoot during the month of January: I am enclosing \$..... to cover my entry fees at \$1.00 per match (No. 5 is 50c).

MY NAME.....

ADDRESS.....

CITY.....

While thinking about matches, why not use this space to suggest any events you think should be added to the present program as listed in the November Rifleman?

---

---

---

---

---

---

OAK  
Turn  
use o  
rifle a  
100-Y  
Shoot  
Rifle  
Shir  
able "  
—cam  
and the  
Wade  
Ivan K.  
another  
won the  
a score  
second i  
985. Sh  
too.  
Oaklan  
The Oak  
shoot, to  
ley Turn  
only two  
using the  
The sh  
match ev  
were 159  
Los Ange

# Rifle Remington News

DU PONT

BRIDGEPORT, CONN. DECEMBER, 1937

A PAPER FOR PEOPLE WHO SHOOT

## SHIRLEY TURNER AND IVAN WADDELL WIN CALIF. INDOOR CHAMPIONSHIPS

**Oakland Girl Scores 987 with Model 37 and "Palma Match" ... Wins Women's Title**

**Waddell Takes State Championship with 994 ... Wife 2nd In Women's Event**

OAKLAND, Calif.—Miss Shirley Turner of Oakland made brilliant use of her Remington Model 37 rifle at the Official California State 100-Yard Championship Indoor Shoot, sponsored by the Oakland Rifle Club of this city.

Shirley loaded up with that reliable "Palma Match" ammunition — came through with a score of 987 and the Women's Championship.

### Waddell Captures Men's Title

Ivan K. Waddell of Medford, Ore., another "Palma Match" shooter, won the State Championship with a score of 994. Mrs. Waddell was second in the women's event with 985. She shoots "Palma Match," too.

### Oakland Club Wins Team Event

The Oakland Club, sponsor of the shoot, took the Team Event. Shirley Turner and her Dad scored the only two possibles on the team, both using the Remington Model 37.

The shoot was the largest indoor match ever held in California. There were 159 entries, with shooters from Los Angeles to Oregon competing.



### THE TARGET OF THE MONTH

The "Target of the Month" for December is a fitting signature to a year of many fine targets. Many of these were made with the new Remington "Rangemaster" Model 37, while most, of course, were with "Palma Match" or "Palma Kleanbore."

\* \* \*

This truly remarkable target was made by pretty Shirley Turner of Oakland, Calif., during the California Indoor Championship Matches. It was scored with iron sights at 100 yards! The group measures slightly under 3/4 inch center to center. It would make a 10X possible on the regulation 100 yard target! Shirley used her Model 37 and "Palma Match" ammunition.

This month's orchid goes to Shirley Turner of Oakland, Calif.

Here's the gun Shirley used ... the new Remington "Rangemaster" Model 37.

### MODEL 37 TAKES PITTSFIELD SHOOT

PITTSFIELD, Ill.—The returns from the first Model 37 "Rangemaster" Rifles are beginning to come in; and as more of these go into circulation, we expect the number of winnings here and there to increase.

C. L. Wood, shooting Model 37 No. 1200, while the Pittsfield Club was playing host to Illinois shooters, took first place over the Dewar Course, scoring 397 x 400 and 25Xs, despite a high wind. Emory Hawcock was the runner-up. Both were shooting "Palma Match."

Mr. Wood had just received his rifle the day before the match! It doesn't take long to get used to this rifle.

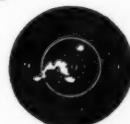
The 2-Man Team Event also went to Wood and Hawcock with 388 out of a possible 400. This was a 50 meter event. Mr. Hawcock got the Grand Aggregate gold medal with Mr. Wood a close second.

(Left) **PETE JOSSELAND** of Monett, Mo., caresses the Balfour Trophy which will now decorate his mantel. Pete won the Southwest Missouri Small-Bore Aggregate with 590, shooting "Palma Match." The Match was held at Monett, under the sponsorship of the Monett Rifle & Revolver Club. In the same tournament, Jack Rogers of Neosho, Mo., won the Scotch Cup for the smallest 5-shot group at 100 yards. Jack shot "Palma Match" ... made a group measuring only 7/8".

### Mississippi Shooter Makes High Scores With Model 341 and "Kleanbore"

YAZOO CITY, Miss.—If anyone thinks the little Remington Model 341-P rifle can't shoot

possibles, take a look at this target scored at 50 yards by Muse Davis of this city. Davis has 20 targets scored with this gun, with groups averaging 15 16 inch, and getting down to 7/8" ... circles completely inclosing the groups!



### OFFHAND SHOOTERS' TAKE NOTE!

CHICAGO, Ill.—These two targets—one a 10 shot group, the other a composite of a 50-shot group—were made offhand at 75 feet by K. Lewis Hackley of this city, using "Kleanbore" ammunition.



### POSSIBLES and IMPOSSIBLES

by FRANK KAHRS



Albert Pione got himself some "Kleanbore Kleankote" sometime back, and on Columbus Day went on a little pasare to Little Ferry, N. J., where he fired 40 shots at 50 yards in the company of Dave Baillie and Jake Muntenner, surprising those gentlemen very much indeed with his fine holding and grouping. His score was 399 x 400 with 29Xs. Not bad for regular run of the mill production ammunition, the kind you can buy anywhere!

\* \* \*

Out at the S. E. Wisconsin Fall Championships, I see that the 50-Yard Iron Sight Match was won by Wes Hansche with 200 and 15X's. He used "Palma Match." "Marsh" Groskopf won the 100-Yard with 198, shooting "Palma." He also took the Dewar, with Wes Hansche second, shooting "Palma Kleanbore" and a Model 37. Lew Bulgrin, third, using the same.

Bill Schiff, the 13-year-old Wonder Boy of Wisconsin, and Wes Hansche did a swell job in the 2-Man Team, both using the Model 37 and "Palma Kleanbore."

\* \* \*

One of my Scouts reports that Alan Salkeld did a fine bit of shooting at the recent Small Bore Tournament at Vandergrift, Pa., winning the Dewar Match with 399. One down at 50 yards he scored a 15X possible 200 at 100 yards. He won the match.

His reward was \$14 in cash, a travelling bag, an alarm clock and some medals. As I see it, Alan has \$14 to travel with, a travelling bag, an alarm clock to awaken him when he gets there and some medals to show his admiring friends. Looks like an ideal set-up.

Oh, yes, I almost forgot to say that "Palma Match" was the fodder used.

\* \* \*

Ralph L. Murphy of Gary, Ind., made his first trip to Perry this year and distinguished himself by shooting 400 x 400 over the Dewar Course in the Lyman 2-Man Team Match, which was one of the five 400's made in the match this year. In the Western Trophy Any Sight Match he had a 399, using metallic sights, but it only got him 14th place. Not a bad record for a new man, and while it is perhaps of incidental interest that Mr. Murphy shot "Palma Match," nevertheless we are glad to tell our readers about him.



DETROIT POLICE PISTOL TEAM

Left to right: Lewis Sanderson, Albert Shapiro, Marvin O. Decker, Norman R. Adair, Maurice LaLonde, Alfred W. Hemming.

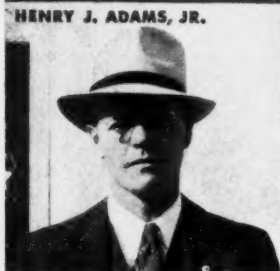


DELAWARE & HUDSON R. R. POLICE TEAM

Left to right: James H. Overbaugh, Harry J. Russ, Maj. F. A. Herron, J. R. Herron, Crit E. Hall, R. L. Adriance. McGinley shooting 4-man team match. Russ fired in Maryland State Matches.

# Detroit and D & H Police Teams Adams, Overbaugh, Herron

HENRY J. ADAMS, JR.



Henry J. "Hank" Adams, Jr., of San Diego, Calif., won seven of the ten events in the Arizona State Pistol Ass'n. Regional Matches at Tucson, Oct. 3:

- .38-Cal. Individual (Nat'l. Course).....286
- .38-Cal. Indiv. (Police Course, 25 Yds.)....292
- .45-Cal. Indiv. (Police Course, 25 Yds.)....280
- Indiv. Grand Aggr....1139
- Slow Fire Aggregate...281
- Timed Fire Aggregate...293
- Rapid Fire Aggregate...285
- 2nd in .22-Cal. Indiv....281

Norman R. Adair of Yuma, Ariz., shooting Western, placed second to Adams in the .38-Cal. Individual, Police Course—284; .45-Cal. Individual, Police Course—278; Individual Grand Aggregate—1104; Timed Fire Aggregate—286.



WESTERN CARTRIDGE COMPANY,  
Dept. L-25, East Alton, Illinois  
Please send, FREE, the new WESTERN AMMUNITION HANDBOOK, a complete guide to modern shooting.

Name.....  
Address.....  
Post Office.....State.....

## Win with Western

IN winning the T. A. MCGINLEY 13th ANNUAL POLICE TEAM REVOLVER MATCH, held on the Stonedale Range, Sewickley Heights, Pa., October 12, the Detroit Police Pistol Team captured the match for the second consecutive year — shooting Western! Their score of 1108 topped a field of 42 teams.

Third, Fourth and Fifth places also were won by teams shooting Western. *Third:* Delaware & Hudson R. R. Police Team—score: 1090 (tied second high score); *Fourth:* West Virginia State Police Team—score: 1061; *Fifth:* White House Police Team, Washington, D. C.—score: 1040.

The four high individual scores were all made with Western ammunition. *First:* James H. Overbaugh, D & H Police—score: 285. *Second:* Maurice LaLonde—score: 282. *Third:* Alfred Hemming—score: 279. *Fourth:* Lewis Sanderson—score: 276; all of the Detroit Police Team.

For the eighth time in ten years the Detroit Police 5-Man Team

won the Michigan State Police Pistol Team Championship at East Lansing, Mich., October 21. Score: 1935 x 2000. Course: Camp Perry Police and 20 shots at silhouette, bobber target.

In the MARYLAND STATE POLICE PISTOL MATCHES, Camp Ritchie, Md., September 22-23, the D & H Police 5-Man Team won the Team Match with an excellent 1490. The White House Police Team of Washington, D. C. placed third, also shooting Western... First three places in the Open Individual Championship were won with Western by members of the D & H Team. *First:* James H. Overbaugh—score: 295. *Second:* Crit E. Hall—score: 294. *Third:* J. R. Herron—score: 294.

In the regional matches of the ARIZONA STATE PISTOL ASSOCIATION, Tucson, Ariz., October 3, Henry J. "Hank" Adams, Jr., of San Diego, Calif., won SEVEN of the ten events with Western.

Western Cartridge Co., Dept. L-25, E. Alton, Ill.

JAMES H. OVERBAUGH



Overbaugh was high individual, score: 285 (.38-Cal. Indiv. Police Course) in the McGinley Match. He won Open Indiv., Maryland Police Matches, score: 295.

J. R. HERRON



J. R. Herron, of the D & H Team, shot a sensation to win the Individual WASHINGTON, METROPOLITAN POLICE MATCHES, Oct. 4-5, of the first ten won with Western. Course: 50 Yards Slow Fire, 15 Yards Army L target.

# Western

WORLD'S CHAMPION AMMUNITION





TEAM



they shoot

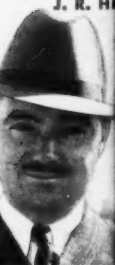
ms

IES H. OVER



h was high i  
e: 285 (.38-c  
of 164 in th  
atch. He w  
div., Marylan  
atches, score

J. R. H



ron, of the I  
ot a sensation  
e Individual  
NGTON,  
POLITAN P  
ES, Oct. 4-5.  
at ten used W  
50 Yards Sle  
med, 15 Yards  
arget.

